Eggs in Oviduct

	# eggs	N
Callisaurus draconoides	3-5	6
Cnemidophorus tigris	2	30
Dipsosaurus dorsalis	3-5	8
Phrynosoma m'calli	4-7	12
Phrynosoma platyrhinos	5-7	5
Sceloporus graciosus	2-6	19
Sceloporus magistr	8-10	8
Sceloporus occidentalis	8-14	34
Sceloporus orcutti	8-15	4
Uma inornata	2-4	14
U. notata	1-4	22
U. scoparia	2-5	22
Urosaurus graciosus	2-4	18
Uta stansburiana	2-6	39

CALLISAURUS
DRACONOIDES

CALLISAURUS
DRACONOIDES

CALLISAURUS DRACONOIDES
TOTAL COLLECTED

MONTH	IMM.			AD.			
	♂	♀	TOTAL	♂	♀	TOTAL	
JAN	–	–	–	–	–	–	
FEB	–	–	–	–	–	–	
MAR	4	–	4	5	1	6	
APR	9	4	13	12	11	23	
MAY	3	8	11	40	24	64	
JUN	2	4	6	4	4	8	
JUL	5	6	11	10	15	25	
AUG	3	3	6	25	20	45	
SEP	3	6	9	9	3	12	
OCT	3	1	4	3	–	3	
NOV	–	–	–	–	–	–	
DEC	–	–	–	–	–	–	
	32	32	64	108	78	186	TOTALS

CALLISAURUS DRACONOIDES REPRODUCTION CHART

MALE

ENLARGED TESTIS (> 40 mm^3)

1959 4/25 – 8/19

1960 3/21 – 8/10

1961 5/14 – 8/21

1962 5/5 – 7/19

3/21 – 8/22 (63) OK

CONVOLUTED EPIDIDYMIS

1959 4/25 – 8/31

1960 4/12 – 9/9

1961 4/14 – 8/21

1962 5/5 – 8/4

4/11 (64) – 9/9 OK

MOTILE SPERM

1959 8/19 – 8/31

1960 4/12 – 9/9

1961 4/14 – 8/21

1962 5/5 – 8/4

4/11 (64) – 9/9 OK

FEMALE

OVA ACCUMULATED YOLK

1959 8/19

1960 4/13 – 8/10

1961 8/12 – 8/13

1962 4/14 – 7/19

4/11 (64) – 8/19 OK

C. D. (CONT.)

ENLARGED EGGS (> 3 mm)

1959 8/19

1960 4/13 - 8/10

1961 8/12 - 8/13

1962 4/14 - 5/5

7/11 (64) - 8/19 OK

CONVOLUTED OVIDUCTS

1959 3/22 - 9/11

1960 4/13 - 8/10

1961 5/9 - 9/16

1962 4/14 - 8/19

3/22 - 9/24 (63) OK

EGGS IN OVIDUCTS

1959 8/20

1960 5/11 - 9/17

1961 9/10

1962 —

5/11 - 8/20 OK

CORPORA LUTEA

1959 8/20 - 9/9

1960 5/1 - 8/10

1961 9/10 - 9/21

1962 9/17

5/1 - 9/9 OK

Potentially Breeding Callisaurus draconoides ♂♂ (70+mm, S-V)

(Smallest ♂ = 58mm)
(largest ♂ = 102 "")

Date	#♂	No ♂	Total	% ♂
Sept. '58	0	5	5	0
Mar. '59	0	1	1	0
Apr.	0	1	1	0
May	0	1	1	0
June			0	
July			0	
Aug.	4	0	4	100
Sept.	0	2	2	0
Oct.	0	2	2	0
Mar. '60	0	3	3	0
Apr.	6	0	6	100
May	13	0	13	100
June	3	0	3	100
July	3	1	4	75
Aug.	7	0	7	100
Sept.	1	0	1	100
Mar. '61	0	1	1	0
Apr.	1	2	3	33
May	1	3	4	25
June	0	1	1	0
July			0	
Aug.	1	0	1	100
Sept.			0	
Oct.	0	1	1	0
May '62	11	6	17	65
Jul.	5	1	6	83
Aug.	2	5	7	30
Apr. '63	0	1	1	0
May	2	4	6	33
Aug	0	1	1	0

Totals, 1958-1961

Month	#♂	No ♂	Total	% ♂
Mar.	0	5	5	0
Apr.	7	3	10	70
May	14	4	18	78
June	3	0	4	75
July	3	0	4	75
Aug.	12	0	12	100
Sept.	1	7	8	12
Oct.	0	3	3	0
Total			64	

Potentially Breeding Calisaurus draconoides ♂♂ (70+mm, S-V)

Date	#♂	No♂	Total	%♂
Sep.-63	1	0	1	100
Apr. '64	2	0	2	100

Totals, 1958-1963

Month	#♂	No♂	Total	%♂
Mar	0	5	5	0
Apr	7	4	11	64
May	27	14	41	66
Jun	3	0	4	75
Jul	8	1	9	89
Aug	~~14~~ 15	6	~~20~~ 21	~~70~~ 71
Sep	2	7	9	22
Oct	0	3	3	0
Total			102	

Callisaurus draconoides - (70+mm, S-V) -
Left Testis Volume - Average by Months - 1958-1963.

Month	Σx	N	$\bar{x}$
Mar.	134	5	26.8
Apr.	805	10	80.5
May	3601	41	87.8
Jun	176	4	44.0
Jul.	646	10	64.6
Aug	897 ~~763~~	19 ~~18~~	47.2 ~~42.4~~
Sep.	178	9	19.8
Oct.	23	3	7.7

Callisaurus draconoides Testis Volumes (70 mm S-V)

1958

Ralph Portis

SEPT	
31	
16	
32	
20	
33	
TOTAL VOL	132
MEAN	26.4
RANGE	16-33
NO. LIZARDS	5

Ralph Portis

SEPT	
28	
16	
14	
16	
32	
TOTAL VOL	106
MEAN	21.2
RANGE	14-32
NO. LIZARDS	5

Callisaurus draconoides Testis Volumes (70+ mm S-V)

1959

Left Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	6	42	30	—	—	73	3	7
						104	8	8
						13		
TOTAL VOL	6	42	30	0	0	190	11	15
MEAN	6	42	30	0	0	63.3	5.5	7.5
RANGE	—	—	—	0	0	13-104	3-8	7-8
NO. LIZARDS	1	1	1	0	0	3	2	2

Right Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	8	38	29	—	—	59	3	6
						77	8	9
						13		
TOTAL VOL	8	38	29	0	0	149	11	15
MEAN	8	38	29	0	0	49.7	5.5	7.5
RANGE	—	—	—	0	0	13-77	3-8	6-9
NO. LIZARDS	1	1	1	0	0	3	2	2

Callisaurus draconoides Testis Volumes (70+ mm S-V)

1960

Left Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT
	24	158	72	91	65	94	27
	24	238	55	25	45	63	
	42	88	15	57	75	34	
		91	119		82	47	
		72	101			77	
			137			21	
			134			27	
			168				
			101				
			171				
			130				
			113				
			135				
TOTAL VOL	90	647	1451	173	267	363	27
MEAN	30.0	129.4	111.6	57.7	66.8	51.9	27
RANGE	24-42	72-238	15-171	25-91	45-82	21-94	—
NO. LIZARDS	3	5	13	3	4	7	1

Callisaurus draconoides Testis Volumes (70+ mm S-V)

1960

Right Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT
	34	165	81	57	54	94	24
	20	181	84	21	33	65	
	30	77	63	35	63	48	
		91	130		75	69	
		71	96		~~[illegible]~~	84	
			121		~~[illegible]~~	28	
			128		~~[illegible]~~	34	
			145				
			115				
			161				
			104				
			102				
			157				
TOTAL VOL	84	585	1487	113	225	422	24
MEAN	28.0	117.0	114.4	37.7	56.3	60.3	24
RANGE	20–34	71–181	63–157	21–57	33–75	28–94	—
NO. LIZARDS	3	5	13	3	4	7	1

Callisaurus draconoides Testis Volume (70+ mm S-V)

1961

Left Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	38	5	15	3	—	104	—	8
		25	38					
		25	97					
			5					
TOTAL VOL	38	55	155	3	0	104	0	8
MEAN	38	18.3	38.8	3	0	104	0	8
RANGE	—	5-25	5-97	—	0	—	0	—
NO. LIZARDS	1	3	4	1	0	1	0	1

Right Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	39	7	18	6	—	128	—	9
		35	42					
		30	97					
			4					
TOTAL VOL	39	72	161	6	0	128	0	9
MEAN	39	24.0	40.3	6	0	128	0	9
RANGE	—	7-35	4-97	—	0	—	0	—
NO. LIZARDS	1	3	4	1	0	1	0	1

Callisaurus draconoides Testis Volumes (70+ mm S-V)

1962

Left Testis

	MAY	JUN	JUL	AUG
	173	—	27	15
	187		38	8
	131		94	5
	286		38	4
	208		107	3
	105		75	4
	191			
	8			
	150			
	176			
	15			
	47			
	11			
	15			
	33			
	69			
TOTAL VOL	1805	0	379	39
MEAN	112.8	0	63.2	6.5
RANGE	8–286	0	27–107	3–15
NO. LIZARDS	16	0	6	6

Callisaurus draconoides Testis Volumes (70 mm S-V)

1962

Right Testis

	MAY	JUN	JUL	AUG
	198	—	28	13
	176		41	8
	139		97	5
	251		57	4
	217		89	6
	102		82	4
	143			
	13			
	154			
	220			
	15			
	55			
	13			
	16			
	33			
	91			
TOTAL VOL	1836	0	394	40
MEAN	114.8	0	65.7	6.7
RANGE	13-251	0	28-97	4-13
NO. LIZARDS	16	0	6	6

Callisaurus draconoides testis volumes (70+mm, S-V)
1963

Left Testis

	Apr	May	Aug	Sep
	61	14	67	8
		29		
		11		
		24		
		16		
		43		
		24		
ΣX	61	161	67	8
N	1	7	1	1
$\bar{X}$	61	23.0	67	8
range	—	11-43	—	—

Right Testis

	Apr	May	Aug	Sep
	75	15	53	8
		59		
		21		
		20		
		24		
		47		
		29		
ΣX	75	215	53	8
N	1	7	1	1
$\bar{X}$	75	30.7	53	8
range	—	15-59	—	—

Testis Volumes, *Callisaurus draconoides* Adults (70+mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸	𝍸

Testis Volumes, *Callisaurus draconoides* Immature (<70mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸 IIII	𝍸 𝍸 𝍸 I	𝍸 II

Callisaurus draconoides Adults (70+ mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ //	

Callisaurus draconoides Immature (< 70mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
	III	

Callisaurus draconoides Adult ♂ (70+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				I
May		I	IIII	~~IIII~~ ~~IIII~~ ~~IIII~~ II
Jun				
Jul				~~IIII~~ I
Aug				~~IIII~~ III
Sep				I
Oct				
Nov				
Dec				

Callisaurus draconoides Immature ♂

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr			1	
May		1	1	
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				

Calliosaurus draconoides Adult ♀ (65+ mm. S-V)

(19) LEFT OVARY ANTERIOR	(18) RIGHT OVARY ANTERIOR	(20) OVARIES EVEN
	~~IIII~~ ~~IIII~~ III	~~IIII~~ ~~IIII~~ II

Callisaurus draconoides

EGGS IN OVIDUCT

	LEFT												RIGHT										
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10		0	1	2	3	4	5	6	7	8	9	10
NO. of TAG																							
(5/1/60) 76			✓													✓							
(5/1/60) 83		✓													✓								
(5/9/60) 86			✓													✓							
(7/17/60) 113		✓													✓								
(7/10/61) 152		✓													✓								
(8/12/64) 246			✓													✓							

Callisaurus draconoides

SIZE OF EGGS IN OVIDUCT

LIZARD NO.	LEFT SIZE IN mm	RIGHT SIZE IN mm Collapsed
76	15.1 x 9.2; 14.7 x 8.1	14.1 x 7.9; 15.4 x 7.5; [redacted]
83	17.0 x 7.8	14.6 x 7.0; 15.5 x 8.0
86	15.3 x 9.0; 15.4 x 9.1	15.4 x 9.0; 15.3 x 8.5; 14.0 x 9.3
113	17.2 x 13.1	16.6 x 13.7; 16.8 x 13.4
152	16.4 x 8.5	16.3 x 8.7; 16.0 x 9.0
246	12.9 x 8.1; 12.8 x 8.7	14.3 x 8.7; 14.1 x 8.7; 14.1 x 9.0

LEFT:

$\Sigma x = 136.8 \times 81.6$

$N = 9$

$\bar{x} = 15.2 \times 9.1$ mm

~~Range =~~

RIGHT:

$\Sigma x = 212.5 \times 129.4$

$N = 14$

$\bar{x} = 15.2 \times 9.2$ mm

$\Sigma x = 349.3 \times 211.0$

$N = 23$

$\bar{x} = 15.2 \times 9.2$ mm

Range = 12.8 x 7.0 mm to 17.2 x 13.1 mm

Callisaurus draconoides

OVA WITH YOLK

NUMBER OF OVA	LEFT OVARY	RIGHT OVARY
1	IIII	IIII
2	~~IIII~~~~IIII~~	~~IIII~~~~IIII~~
3	~~IIII~~	III
4		I
5		I
6		
7		
8		
9		
10		

Callisaurus draconoides

FAT BODIES

7

MONTH	ADULT ♂ (70+ mm)	ADULT ♀ (65+ mm.)	IMMATURE ♂	IMMATURE ♀
JAN.				
FEB.				
MAR.	9	1		
APR.	17	12		
MAY	31	31		
JUN.	7	12		
JUL.	15	21		
AUG.	28	18		
SEPT.		8		
OCT.	6	1		
NOV.				
DEC.				

Callisaurus draconoides Adult (65+ mm S-V)

	Left ovary	Right ovary
1		
2	II	I
3	I	I
4	I	II
5	III	IIII
6	I	~~IIII~~ I
7	~~IIII~~ ~~IIII~~	~~IIII~~
8	~~IIII~~ ~~IIII~~	~~IIII~~ ~~IIII~~ II
9	~~IIII~~ ~~IIII~~ ~~IIII~~ III	~~IIII~~ ~~IIII~~ I
10	~~IIII~~ III	~~IIII~~ ~~IIII~~
11	~~IIII~~ III	~~IIII~~ I
12	IIII	~~IIII~~
13	I	II
14	I	II
15		I
25		
30	I	

Callisaurus draconoides Immature

No.	Left ovary	Right ovary
1		
2		
3		
4	I	
5	I	III
6	~~IIII~~ IIII	~~IIII~~ II
7	IIII	~~IIII~~ I
8	~~IIII~~ III	~~IIII~~ III
9	~~IIII~~ III	IIII
10	II	II
11	I	IIII
12	II	
13		

Callisaurus draconoides Adult ♀ (65+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr		I	II	
May	~~IIII~~ II	I		
Jun				
Jul		II		I
Aug			I	~~IIII~~
Sep				
Oct				
Nov				
Dec				

Callisaurus draconoides Immature

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May				
Jun				1
Jul		1		
Aug				
Sep				
Oct				
Nov				
Dec				

Cnemidophorus
tigris

Cnemidophorus
tigris

Potentially Breeding *Cnemidophorus tigris* ♂♂ (70+ mm, S-V)

Date	# ⑧	No ⑧	Total	% ⑧
Sep '58	0	1	1	0
May '59	1	0	1	100
Jul. 59	1	1	2	50
Aug.	0	1	1	0
Sep	0	2	2	0
Apr. '60	2	0	2	100
May	4	1	5	80
Jun.	0	3	3	0
Jul.	4	1	5	80
Apr. '61	2	0	2	100
May	1	4	5	20
Jun.	2	0	2	100
Apr. '62	3	1	4	75
May	14	0	14	100
Aug.	1	2	3	33
Mar '63	0	1	1	0
May	0	4	4	0
Apr. '64	2	1	3	66
May	0	1	1	0

Totals, 1958-1963

Month	# ⑧	No ⑧	Total	% ⑧
Mar.	0	1	1	0
Apr.	7	1	8	88
May	20	9	29	69
Jun	2	3	5	40
Jul.	5	2	7	71
Aug	1	3	4	25
Sep.	0	3	3	0
Total			57	

Cnemidophorus tigris Adult ♀ (70+ mm. S-V)

(19)	(18)	(20)
LEFT OVARY ANTERIOR	RIGHT OVARY ANTERIOR	OVARIES EVEN
///	///	~~////~~ ~~////~~ ~~////~~

COLEONYX VARIEGATUS

COLEONYX VARIEGATUS

COLEONYX VARIEGATUS

TOTAL COLLECTED

MONTH	IMM			AD		
	♂	♀	TOTAL	♂	♀	TOTAL
JAN	-	-	-	-	-	-
FEB	-	-	-	-	-	-
MAR	-	-	-	4	2	6
APR	2	-	2	75	57	132
MAY	-	-	-	33	30	63
JUN	2	1	3	37	28	65
JUL	-	-	-	8	7	15
AUG	-	1	1	18	15	33
SEP	2	2	4	8	15	23
OCT	1	-	1	9	6	15
NOV	-	1	1	1	-	1
DEC	-	-	-	-	-	-
	7	5	12	193	160	353

TOTALS

[illegible] VARIEGATUS REPRODUCTION CHART

MALE

ENLARGED TESTES (> 25 mm?)

1959 4/24 – 9/19

1960 4/12 – 8/9

1961 [illegible] – 9/20

1962 [illegible] – 8/11

3/24 – 8/20 OK

CONVOLUTED EPIDIDYMIS

1959 4/24 – 9/19

1960 4/12 – [illegible]

1961 3/20 – 9/10

1962 4/13 – 9/11

3/20 – 8/20 OK

MOTILE SPERM

1959 4/24 – 9/19

1960 4/12 – [illegible]

1961 [illegible]

1962 4/10 ([illegible] 8+ and 9 [illegible] 5 [illegible])

3/20 – 7/15 OK

FEMALE

OVA ACCUMULATED YOLK

1959 4/24 – 8/18

1960 4/12 – 8/9

1961 4/15 – 7/12

1962 4/13 – 8/11

4/17 (63) – 4/19 (58) OK

L. V. (CONT)

ENLARGED EGGS (> 4 mm)

1959 4/24 - 8/18

1960 4/12 - 8/9

1961 4/15 - 8/11

1962 4/12 - 8/11

4/7 (63) - 8/21 (63)

CONVOLUTED OVIDUCTS

1959 4/24 - 7/20

1960 4/12 - 7/9

1961 4/15 - 7/12

1962 4/13 - 7/15

4/7 (63) - 7/11 (58)

EGG IN OVIDUCTS

1959 4/24 - 6/11

1960 4/12 - 7/9

1961 4/15 - 9/11

1962 4/13 - 7/20

4/12 - 9/11 (58)

CORPORA LUTEA

1959 5/22 - 6/11

1960 4/30 - 9/9

1961 4/15 - 8/11

1962 4/13 - 7/9

4/13 - 7/9

Potentially Breeding *Coloenyx variegatus* ♂♂ (55+mm, S-V)

(smallest ♂ = 51 mm)
(largest ♂ = ")

Date	# ♂	No ♂	Total	% ♂
Apr. '59	5	0	5	100
May	8	2	10	80
June	6	0	6	100
July			0	
Aug.	4	2	6	67
Sept.	0	1	1	0
Oct.	0	6	6	0
Nov.	0	1	1	0
Mar. '60	0	1	1	0
Apr.	21	3	24	88
May	9	0	9	100
June	5	0	5	100
July			0	
Aug.	2	0	2	100
Sept.	3	0	3	100
Oct.	0	2	2	0
Mar. '61	2	0	2	100
Apr.	15	2	17	88
May	5	2	7	71
June	21	1	22	95
July	3	0	3	100
Aug.	1	3	4	25
Sept.	3	0	3	100
Oct.	0	1	1	0
Apr. '62	7	0	7	100
Jun.	2	0	2	100
Jul.	5	0	5	100
Aug.	5	1	6	83
Sep.	2	0	2	100
Apr. '63	8	3	11	73

Totals, 1959-1961

Month	# ♂	No ♂	Total	% ♂
Mar.	2	1	3	67
Apr.	41	5	46	89
May	22	4	26	85
June	32	1	33	97
July	3	0	3	100
Aug.	7	5	12	58
Sept.	6	1	7	86
Oct.	0	9	9	0
Nov.	0	1	1	0
Total			140	

Potentially breeding *Coleonyx variegatus* ♂♂ (55+ mm, S-V)

Date	# ⑧	No ⑧	Total	% ⑧
May '63	6	1	7	86
Apr ~~Jun~~ '64	8	3	11	73

Totals, 1959-1963

Month	# ⑧	No ⑧	Total	% ⑧
Mar	2	1	3	67
Apr.	56	8	64	88
May	28	5	33	85
Jun	34	1	35	97
Jul	8	0	8	100
Aug	12	6	18	67
Sep	8	1	9	89
Oct	0	9	9	0
Nov.	0	1	1	0
			180	

Coleonyx variegatus - (55+ mm. S-V)

Left Testis Volume - Summary 1959-1963

Month	ΣX	N	$\bar{X}$
Mar	168	4	42.0
Apr	3878	64	60.6
May	1806	32	56.4
Jun	2018	37	54.5
Jul	358	8	44.8
Aug	556	18	30.9
Sep	80	8	10.0
Oct	108	9	12.0
Nov	16	1	16.0

Coleonyx variegatus Testis Volumes (55+mm S-V)

1959

Left Testis

	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV
	35	26	29	—	21	3	13	16
	62	34	56		60		15	
	50	41	51		25		19	
	59	4	144		42		7	
	60	56	54		2		19	
		100	62		26		19	
		56	56					
		37	42					
		31	18					
		42						
TOTAL VOL	266	427	512	0	176	3	92	16
MEAN	53.2	42.7	56.9	0	29.3	3	15.3	16
RANGE	35-62	4-100	18-144	0	2-60	—	7-19	—
NO. LIZARDS	5	10	9	0	6	1	6	1

Right Testis

	35	35	11	—	25	3	13	18
	62	44	45		56		15	
	50	36	59		24		26	
	70	3	149		51		8	
	70	45	46		6		17	
		85	56		41		16	
		47	53					
		41	46					
		23	18					
		49						
TOTAL VOL	287	408	483	0	203	3	95	18
MEAN	57.4	40.8	53.7	0	33.8	3	15.8	18
RANGE	35-70	3-85	11-149	0	6-56	—	8-26	—
NO. LIZARDS	5	10	9	0	6	1	6	1

Coleonyx variegatus Testis Volumes (55 mm S-V)

1960

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
22	54	~	100	—	9	25	8
24	33	24	28		28	5	4
	68	56	35				
	23	62	53				
	50	83	29				
	36	60					
	54	73					
	66	72					
	60	50					
	9						
	113						
	79						
	83						
	35						
	62						
	79						
	37						
	72						
	112						
	31						
	91						
	72						
	73						
	63						
TOTAL VOL. 46	1455	480	245	0	37	30	12
MEAN 23.0	60.6	60.0	49.0	0	18.5	15.0	6.0
RANGE 22-24	9-113	24-83	28—100	0	9-28	5-25	4-8
NO. LIZARDS 2	24	8	5	0	2	2	2

Coleonyx variegatus Testis Volumes (55+ mm S-V)

1960

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
23	57	30	103	—	10	16	8
30	32	18	42		40	4	3
	60	62	29				
	36	65	34				
	59	95	42				
	50	80					
	40	74					
	51	59					
	54	56					
	14						
	114						
	48						
	54						
	33						
	45						
	77						
	40						
	66						
	95						
	31						
	77						
	71						
	68						
	79						
TOTAL VOL.	53	1351	539	250	0	50	20	11
MEAN	26.5	56.3	59.9	50.0	0	25.0	10.0	5.5
RANGE	23-30	14-114	18-95	29-103	0	10-40	4-16	3-8
NO. LIZARDS	2	24	9	5	0	2	2	2

Coleonyx variegatus Testis Volumes (55+ mm S-V)

1961

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
79	91	37	102	19	60	9	4
43	43	22	45	50	36	5	
	67	97	32	62	37	18	
	28	89	41		45		
	81	60	21				
	101	93	20				
	69	72	40				
	108		101				
	93		60				
	57		36				
	65		69				
	63		46				
	46		57				
	65		68				
	100		37				
	54		64				
	67		60				
			56				
			41				
			56				
			51				
TOTAL VOL. 122	1198	470	1103	131	178	32	4
MEAN 61.0	70.5	67.1	52.5	43.7	44.5	10.7	4
RANGE 43-79	28-108	22-97	21-102	19-62	36-60	5-18	—
NO. LIZARDS 2	17	7	21	3	4	3	1

Coleonyx variegatus Testis Volumes (55+ mm S-V)

1961

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
112	72	39	104	51	60	8	5
20	56	32	46	42	45	4	
	23	74	37	60	30	11	
	83	60	27		29		
	92	48	21				
	69	87	20				
	69	69	33				
	105		85				
	92		60				
	50		25				
	66		53				
	40		39				
	39		60				
	74		79				
	112		39				
	81		66				
	73		71				
			51				
			35				
			54				
			51				
TOTAL VOL. 132	1196	409	1056	153	164	23	5
MEAN 66.0	70.4	58.4	50.3	51.0	41.0	7.7	5
RANGE 20-112	23-112	32-87	20-104	42-60	29-60	4-11	—
NO. LIZARDS 2	17	7	21	3	4	3	1

Coleonyx variegatus Testis Volumes (55+ mm S-V)

1962

Left Testis

	APR	MAY	JUN	JUL	AUG	SEPT
	94	—	81	54	8	10
	101		77	37	37	5
	65			45	25	
	70			32	36	
	51			59	29	
	54				30	
	56					
TOTAL VOL.	491	0	158	227	165	15
MEAN	70.1	0	79.0	45.4	27.5	7.5
RANGE	51-101	0	77-81	32-59	8-37	5-10
NO. LIZARDS	7	0	2	5	6	2

Right Testis

	APR	MAY	JUN	JUL	AUG	SEPT
	91	—	87	50	~	11
	107		69	43	44	5
	131			45	29	
	144			33	35	
	39			60	22	
	48				32	
	65					
TOTAL VOL.	625	0	156	231	162	16
MEAN	89.3	0	78.0	46.2	32.4	8.0
RANGE	39-144	0	69-87	33-60	22-44	5-11
NO. LIZARDS	7	0	2	5	5	2

NOTE OMISSION

Coleonyx variegatus - Testis volumes (55+ mm, S-V)
1963

Left Testis

	Apr	May
	33	30
	24	36
	68	62
	65	81
	42	97
	22	30
	60	93
	35	
	18	
	45	
	56	
ΣX	468	429
N	11	7
$\bar{X}$	42.5	61.3
range	18-68	30-97

Right Testis

Apr	May
40	62
36	40
77	77
38	81
32	96
22	52
35	53
41	~~26~~
57	
41	
ΣX 419	461
N 10	7
$\bar{X}$ 41.9	65.8
range 22-77	40-96

Testis Volumes, *Coleonyx variegatus* Adults (55+ mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 IIII
𝍸 𝍸 I	𝍸 III	

Testis Volumes, *Coleonyx variegatus* Immature (<55 mm S-V)

Left testis larger	Right testis larger	Testes same size
IIII	I	

Coleonyx variegatus Immature (<55 mms-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even

Coleonyx variegatus Adults (55+ mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
	𝍸 𝍸 𝍸 𝍸 𝍸 III	𝍸 II

Coleonyx variegatus Adult ♀ (55+ mm. S-V)

LEFT OVARY ANTERIOR	RIGHT OVARY ANTERIOR	OVARIES EVEN
	𝍸 𝍸 𝍸 𝍸 𝍸 II	III

Coleonyx variegatus

EGGS IN OVIDUCT

NO. of EGGS	LEFT 0	1	2	3	4	5	6	7	8	9	10		RIGHT 0	1	2	3	4	5	6	7	8	9	10	
NO. of TAG		✓												✓										
367 27		✓												✓										
36		✓												✓										
38		✓												✓										
52		✓												✓										
55		✓												✓										
89		✓												✓										
105		✓												✓										
110		✓												✓										
131		✓												✓										
135		✓												✓										
139		✓												✓										
140		✓												✓										
167		✓												✓										
181		✓												✓										
182		✓												✓										
201		✓												✓										
215		✓												✓										
239		✓												✓										
241		✓												✓										
242		✓												✓										
245		✓												✓										
263		✓												✓										
278		✓												✓										
290		✓												✓										
294		✓												✓										
300		✓												✓										
341		✓												✓										
342		✓												✓										
346		✓												✓										
367	~~14.1×4.2~~ 13.1×4.1												14.1×4.2											21.7 × 15.8 mm

Coleonyx variegatus

SIZE OF EGGS IN OVIDUCT

LIZARD NO	LEFT SIZE IN mm.	RIGHT SIZE IN mm.
27	15.5 x 9.0	16.0 x 9.0
36	17.0 x 8.4	16.7 x 8.6
38	13.4 x 7.1	13.7 x 7.5
52	x	14.9 x 7.5
55	16.7 x 8.2	17.2 x 8.2
89	17.5 x 13.4	18.1 x 13.8
105	18.0 x 8.3	18.0 x 8.3
110	16.6 x 8.4	17.5 x 8.4
131	19.4 x 9.7	19.5 x 9.9
135	Deformed	Deformed
139	18.4 x 9.4	17.3 x 9.3
140	19.0 x 9.0	14.6 x 8.9
167	15.0 x 7.8	15.8 x 8.0
181	18.0 x 9.0	18.0 x 9.0
182	18.9 x 9.3	18.9 x 8.7
201	20.0 x 9.9	20.2 x 9.9
215	19.0 x 9.3	21.9 x 8.5
239	18.9 x 7.8	19.3 x 7.4
241	18.1 x 8.3	17.4 x 8.2
242	15.8 x 8.0	16.4 x 7.8
245	17.0 x 9.5	15.9 x 8.5
263	19.2 x 9.4	18.4 x 9.1
278	18.0 x 7.8	19.9 x 7.8
290	14.1 x 8.0	13.5 x 6.8
294	17.4 x 7.0	18.0 x 8.3
300	15.1 x 7.7	16.1 x 8.6
341	18.3 x 9.1	20.0 x 9.1
342	16.6 x 8.5	16.3 x 9.1
346	18.8 x 9.1	18.4 x 8.9
367	~~14.1 x 4.2~~ 13.7 x 4.9	14.1 x 4.2

$\Sigma X = 478.4 \times 241.6$

$N = 28$

$\bar{X} = 17.1 \times 8.6$ mm

$\Sigma X = 502.0 \times 248.3$

$N = 29$

$\bar{X} = 17.3 \times 8.6$ mm

Eggs laid

19.6 x 9.8 mm

19.7 x 9.8 "

Total

$\Sigma X = 980.4 \times 489.90$

$N = 57$

$\bar{X} = 17.2 \times 8.6$ mm

Range = 13.4 x 4.2 mm To 21.9 x 13.8 mm

Coleonyx variegatus

OVA WITH YOLK

NUMBER OF OVA	LEFT OVARY	RIGHT OVARY
1	𝍸𝍸 𝍸 𝍸𝍸𝍸 𝍸𝍸𝍸𝍸𝍸𝍸 𝍸 𝍷	𝍸𝍸𝍸 𝍸 𝍸𝍸 𝍸𝍸 𝍸𝍸𝍸𝍸 𝍸 𝍷𝍷
2		
3		
4		
5		
6		
7		
8		
9		
10		

Coleonyx variegatus

FAT BODIES

7

MONTH	ADULT (55+mm) ♂	ADULT (55+mm) ♀	IMMATURE ♂	IMMATURE ♀
JAN.				
FEB.				
MAR.	5	3		
APR.	66	52		
MAY	34	30		
JUN.	30	24		
JUL.	8	7		
AUG.	11	16		
SEPT.	10	17		1
OCT.	10	6	1	
NOV.	1	1		
DEC.				

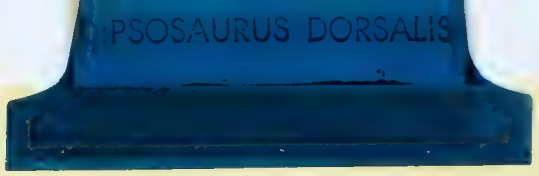
Coleonyx variegatus Adult (55+ mm S-V)

(No. ova)

	Left ovary	Right ovary
1	III	III
2	I	
3	IIII	I
4	~~IIII~~IIII	~~IIII~~IIII
5	~~IIII~~~~IIII~~~~IIII~~~~IIII~~III	~~IIII~~~~IIII~~~~IIII~~~~IIII~~IIII
6	~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~	~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~IIII
7	~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~I	~~IIII~~~~IIII~~~~IIII~~~~IIII~~~~IIII~~II
8	~~IIII~~~~IIII~~	~~IIII~~~~IIII~~IIII
9	II	II
10	II	II
11		

Coleonyx variegatus Immature

	Left ovary	Right ovary
1		
2		1
3	11	
4		1
5	1	1
6	1	11
7		
8		
9		
10	1	
11		


IPSOSAURUS DORSALIS

DIPSOSAURUS DORSALIS

Dipsosaurus dorsalis Testis Histology

Figure No.	Stage	Lizard No.	Capture Date	Magnification
4 A	1 (normal)	10	4/10/59	605
4 B	1 (abnormal)	596	5/6/62	420
5 A	2	594	5/6/62	590
5 B	3	574	4/23/62	560
6 A	4	592	5/6/62	330
6 B	5	92	3/28/60	390
7	6	241	6/9/60	390
8 A	7	40	6/10/59	340
8 B	7 (interstitial cells)	336	8/11/60	370
9 A	8	82	8/31/59	605
9 B	immature	78	8/20/59	605
12 A	non-breeding epididymis	10	4/10/59	670
12 B	breeding epididymis	241	6/9/60	360

DIPSOSAURUS DIPSARIS

TOTAL COLLECTED

MONTH	JUV. ♂	JUV. ♀	JUV. TOTAL	ADULT MALES 1958	1959	1960	1961	1962	1963	TOTAL
JAN	–	–		–	–	–	–	–	–	–
FEB	–	–		–	–	–	–	–	–	–
MAR	–	–		–	–	1	–	6	–	7
APR	16	10	26	–	6	24	9	22	4	65
MAY	9	9	18	–	2	47	21	16	3	89
JUN	16	10	26	–	17	41	30	14	–	102
JUL	16	12	28	–	4	17	15	18	–	54
AUG	13	8	21	5	4	17	13	6	–	45
SEP	5	2	7	–	–	6	4	4	–	14
OCT	–	–	–	–	–	–	1	–	–	1
NOV	–	–	–	–	–	–	–		–	–
DEC	–	–	–	–	–	–	–	–	–	–
TOTAL	75	51	126	5	33	153	93	86	7	377

ADULT FEMALES

	1958	1959	1960	1961	1962	1963	TOTAL
JAN	–	–	–	–	–	–	–
FEB	–	–	–	–	–	–	–
MAR	–	–	–	–	2	–	2
APR	–	3	17	8	16	5	49
MAY	–	2	30	11	9	–	52
JUN	1	2	18	6	6		33
JUL	–	1	4	9	6		20
AUG	2	1	17	7	7	–	34
SEP	1	1	6	–	2	–	10
OCT	–	–	–	–	–	–	–
NOV	–	–	–	–	–	–	–
DEC	–	–	–	–	–		–
TOTAL	4	10	92	41	48	5	200

DIPLODOCUS DORSALIS REPRODUCTION DATA

MALE

ENLARGED TESTIS (>100 mm³)

1959 4/21 to 6/23

1960 3/28 to 8/11

1961 4/19 to 7/23

1962 3/28 to 8/8

3/28 - 8/23 (58)

CONVOLUTED EPIDIDYMIS

1959 5/23 to 6/23

1960 4/11 to 7/23

1961 5/16 to 7/23

1962 4/24 to 6/21

4/11 (63) - 7/23

MOTILE SPERM

1959 5/23 to 6/23

1960 4/13 to 7/23

1961 5/6 to 7/23

1962 4/24 to 6/21

4/13 - 7/23

FEMALE

OVA ACCUMULATED YOLK

1959 5/23 - 6/12

1960 4/12 - 7/23

1961 5/6 - 7/11

1962 4/24 - 8/11

4/12 - 8/11

D. D. (CONT.)

ENLARGED EGGS (> 5 mm)

1959 5/23 - 6/14

1960 7/12 - 7/23

1961 5/14 - 7/11

1962 7/24 - 8/10

7/12 - 8/10

CONVOLUTED OVIDUCTS

1959 7/10 - 7/7

1960 7/12 - 7/16

1961 7/1 - 8/21

1962 5/28 - 7/6

5/28 - 7/20 (-8) OK

EGGS IN OVIDUCTS

1959 -

1960 6/10 - 8/3

1961 8/14

1962 6/13 - 8/8

6/10 - 8/14 OK

CORPORA LUTEA

1959 -

1960 6/10 - 8/10

1961 7/17 - 8/14

1962 6/13 - 8/8

6/10 - 8/14

Dipsosaurus dorsalis ♂♂ (115+mm, S-V)

Number and Sites Collected, 1958 - 1963

Glamis	No.
1958	5
1959	7
1960	22
1961	14
1962	14
1963	0
Total -	62

Dale Lake	
1959	11
1960	51
1961	25
1962	24
1963	6
Total -	117

Palm Springs	
1959	13
1960	76
1961	52
1962	48
1963	1
Total -	190

Totals	
1958	5
1959	31
1960	149
1961	91
1962	86
1963	7
Total -	369

Total adults autopsied	
Glamis -	106
Dale Lake -	166
Palm Springs -	294
Total -	566

Dipsosaurus dorsalis ♀♀ (110+mm, S-V)

Total Examined

Glamis — 44

Dale Lake — 49

Palm Springs — 104

Potentially Breeding *Diposaurus dorsalis* (115 mm., S-V)

(Smallest ♂ = 102 mm)
(largest ♂ – 145 mm)

Date	# ♂	No ♂	Total	% ♂
Aug. '58	0 (2 slight)	5	5	0
Apr. '59	0	6	6	0
May	2	0	2	100
June	15	1	16	94
July	0	4	4	0
Aug.	0	4	4	0
Mar. '60	0	1	1	0
Apr.	16	8	24	61
May	44	3	41	94
June	40	1	41	98
July	8 (5 slight)	9	17	47
Aug.	0	17	17	0
Sept.	0	6	6	0
Apr. '61	0	1	1	0
May	7 (4 slight)	14	21	33
June	29	1	30	97
July	9 (2 slight)	6	15	60
Aug.	0	13	13	0
Sept.	0	4	4	0
Oct.	0	1	1	0
Mar. '62	0	6	6	0
Apr.	8	14	22	36
May	9	7	16	56
Jun.	14	1	15	93
Jul.	15	3	18	83
Aug.	4	2	6	67
Sep.	0	4	4	0
Apr. '63	0	4	4	0
May	1	2	3	33

Totals, 1958 – 1961

Month	# ♂	No ♂	Total	% ♂
Mar.	0	1	1	0
Apr.	16	23	39	41
May	53	17	70	76
June	84	3	87	96
July	17	19	36	47
Aug.	0	39	39	0
Sept.	0	10	10	0
Oct.	0	1	1	0
Total			283	

Totals, 1958 – 1963

Month	# ♂	No ♂	Total	% ♂
Mar.	0	7	7	0
Apr.	24	41	65	37
May	63	26	89	71
Jun.	98	4	102	96
July	32	22	54	58
Aug.	0	45	45	0
Sep.	0	14	14	0
Oct.	0	1	1	0
			377	

Potentially Breeding *Dipsosaurus dorsalis* ♂♂ (115+mm, s-V)

	Palm Springs				29 Palms				Glamis			
Date	#♂	No♂	Total	%♂	#♂	No♂	Total	%♂	#♂	No♂	Total	%♂
Aug. '58			0				0				0	
Apr. '59	0	4	4	0	0	1	1	0			0	
May			0				0		2	0	2	100
June	6	0	6	100	6	0	6	100	3	1	4	75
July	0	2	2	0	0	2	2	0			0	
Aug.	0	1	1	0	0	2	2	0	0	1	1	0
Mar. '60	0	1	1	0			0				0	
Apr.	6	6	12	50	8	1	9	89	2	0	2	100
May	23	0	23	100	15	0	15	100	7	3	10	70
June	17	1	18	94	15	0	15	100	6	0	6	100
July	3	4	7	43	4	4	8	50	1	1	2	50
Aug.	(4 slight) 0	15	15	0	(1 slight) 0	2	2	0			0	
Sept.	(2 slight) 0	2	2	0	0	4	4	0			0	
Apr. '61	0	5	5	0			0		0	4	4	0
May	4	3	7	44	(4 slight) 2	8	10	20	2	0	2	100
June	11	0	11	100	13	0	13	100	4	0	4	100
July	7	4	11	64	(2 slight) 0	2	2	0	2	0	2	100
Aug.	0	11	11	0			0		0	2	2	0
Sept.	0	4	4	0			0				0	
Oct.	0	1	1	0			0				0	
Mar '62	0	6	6	0			0				0	
Apr '62	7	0	7	100	0	6	6	0	1	8	9	11
May	5	0	5	100	2	7	9	22	2	0	2	100
Jun.	10	0	10	100	3	1	4	75	1	0	1	100
Jul. ~~Aug~~	12	1	13	92	2	2	4	50	1	0	1	100
Aug.	4	0	4	100	0	1	1	0	0	1	1	0
Sep.	0	4	4	0			0				0	
Apr. '63	0	1	1	0	0	3	3	0			0	
May			0		1	2	3	~~33~~			0	

Dipsosaurus dorsalis (115+mm, S-V)

Left Testis volumes - Summary 1958-1963.

Month	Σx	N	$\bar{x}$
Mar.	1001	7	143.0
Apr.	18640	65	286.8
May	26829	89	301.4
Jun	26827	102	263.0
Jul	6847	53	129.2
Aug	2503	45	55.6
Sep	669	14	47.8
Oct.	27	1	27

Uma scoparia Testis Volumes (115+ mm S-V)

1958

Left Testis

AUG
79
24
115
28
33

TOTAL VOL. 279
MEAN 55.8
RANGE 24-115
NO. LIZARDS 5

Right Testis

AUG
79
24
112
34
33

TOTAL VOL. 282
MEAN 56.4
RANGE 24-112
NO. LIZARDS 5

Uma scoparia dorsalis Testis Volumes (115+ mm SV)

1959

Left Testis

APR	MAY	JUN	JUL	AUG-SEPT
55	246	261	41	31
71	320	388	40	79
105	~~261~~	189	55	83
37	~~388~~	292	81	75
67	~~189~~	265		
131	~~292~~	131		
	~~265~~	138		
		15[illegible]		
		173		
		227		
		343		
		100		
		314		
		213		
		217		
		275		
		147		
TOTAL VOL.	466	566	3698	217	268
MEAN	77.7	283.0	217.5	54.3	67.0
RANGE	37-105	246-320	15[illegible]-388	40-81	31-83
NO. LIZARDS	6	2	17	4	4

Dipsosaurus dorsalis Testis Volumes (115+ mm S-V)

1959

Right Testis

APR	MAY	JUN	JUL	AUG
61	222	271	46	36
70	330	338	47	79
105		169	45	67
39		325	60	79
67		261		
161		119		
		193		
		20		
		197		
		237		
		445		
		151		
		343		
		343		
		237		
		375		
		162		
TOTAL VOL	503	552	4186	198	261
MEAN	83.8	276.0	246.2	49.5	65.3
RANGE	39-161	222-330	20-445	45-60	36-79
NO. LIZARDS	6	2	17	4	4

Dipsosaurus dorsalis Testis Volumes (115+ mm SV)

1960

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT
218	443	41	280	91	46	29
	584	582	420	59	66	36
	582	166	275	237	27	51
	343	280	246	315	134	25
	232	167	205	246	37	41
	308	47	141	227	27	94
	428	96	165	248	35	[illegible]
	401	445	218	150	55	[illegible]
	176	286	260	218	41	[illegible]
	200	350	290	326	26	
	246	336	232	128	59	
	217	510	180	48	26	
	275	280	256	67	45	
	86	358	169	110	29	
	836	354	193	50	96	
	456	237	217	33	57	
	662	251	422	69	57	
	692	516	350			
	1024	324	420			
	704	388	343			
	381	232	209			
	780	354	533			
	733	298	196			
	206	573	441			
		508	872			
		469	483			
		86	331			
		139	368			
		275	398			
		712	508			

Dipsosaurus dorsalis Testis Volumes (cont.)

1960

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT
—	—	593	474			
		456	499			
		658	410			
		464	326			
		531	460			
		548	188			
		407	420			
		457	315			
		401	343			
		362	450			
		246	435			
		292				
		261				
		205				
		395				
		381				
		526				
TOTAL VOL.	218	10995	16843	13941	2622	863	276
MEAN	218	458.1	358.4	340.0	154.2	50.8	46.0
RANGE	—	86-1024	41-712	141-872	33-326	26-134	25-94
NO. LIZARDS	1	24	47	41	17	17	6

Dipsosaurus dorsalis Testis Volumes (115+ mm S-V)

1960

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT
193	378	26	429	77	60	25
	772	601	400	57	57	43
	593	21	209	292	34	40
	280	332	228	233	112	31
	256	138	196	292	66	36
	355	41	147	193	29	73
	416	79	218	124	39	
	368	388	209	169	32	
	167	407	343	188	25	
	218	341	246	265	25	
	244	270	260	286	21	
	269	472	158	46	33	
	241	256	287	101	27	
	73	358	188	101	28	
	1075	375	209	41	65	
	421	297	276	33	47	
	635	275	372	54	41	
	893	533	398			
	615	315	347			
	712	420	360			
	407	205	205			
	723	343	686			
	674	400	147			
	193	557	471			
		133	682			
		395	320			
		275	343			
		157	314			
		362	343			
		637	435			

Lipsosaurus dorsalis Testis Volumes (cont.)

1960

Right testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT
			558	508			
			369	422			
			621	464			
			533	290			
			703	448			
			502	231			
			461	394			
			450	368			
			232	355			
			338	398			
			235	663			
			282				
			193				
			205				
			372				
			401				
			460				
TOTAL VOL.	193	10970	16324	13967	2552	741	248
MEAN	193	457.1	347.3	340.7	150.1	43.6	41.3
RANGE	—	73-1075	21-703	147-686	41-292	21-112	25-73
NO. LIZARDS	1	24	47	41	17	17	6

~~Dipsosaurus~~ ~~dorsalis~~ Testis Volumes (115+ mm S-V)

1961

Left Testis

APR	MAY	JUN	JUL	AUG	SEPT	OCT
38	356	237	176	57	45	27
149	155	218	18	34	73	
31	263	280	121	57	67	
28	433	169	173	42	34	
39	~~290~~ 282	165	32	26	[redacted]	
75	165	193	110	26		
157	47	251	167	47		
173	141	200	41	30		
84	131	151	113	33		
[redacted]	214	276	52	50		
	326	162	131	30		
	34	181	116	41		
	75	310	79	48		
	401	266	119			
	28	251	173			
	222	193	[redacted]			
	41	197	[redacted]			
	222	410	[redacted]			
	29	188	[redacted]			
	338	30	[redacted]			
		158	[redacted]			
		119				
		209				
		138				
		251				
		410				
		303				
		176				
		173				
		111				

	APR	MAY	JUN	JUL	AUG	SEPT	OCT
TOTAL VOL.	774	4201	6376	1621	521	219	27
MEAN	86.0	200.0	212.5	108.1	40.1	54.8	27
RANGE	28-173	29-401	30-410	18-176	26-57	34-73	—
NO. LIZARDS	9	21	30	15	13	4	1

~~Dipsosaurus dorsalis~~ Testis Volumes (115 mm S-V)

1961

Right Testis

APR	MAY	JUN	JUL	AUG	SEPT	OCT
34	290	213	177	64	48	23
141	172	164	23	54	51	
41	255	280	141	47	51	
21	428	176	197	42	46	
21	293	141	26	24		
60	237	223	107	35		
161	189	231	232	47		
151	50	214	30	21		
79	131	197	223	30		
	141	350	59	65		
	266	169	151	51		
	295	209	113	42		
	21	368	62	48		
	91	266	112			
	495	222	154			
	51	197				
	415	213				
	36	325				
	315	255				
	30	31				
	278	232				
		161				
		181				
		153				
		230				
		407				
		235				
		161				
		193				
		105				

	APR	MAY	JUN	JUL	AUG	SEPT	OCT
TOTAL VOL	709	4479	6502	1807	570	196	23
MEAN	78.8	213.3	216.7	120.5	43.8	49.0	23
RANGE	21-161	21-495	31-407	23-232	21-65	46-51	—
NO. LIZARDS	9	21	30	15	13	4	1

Dipsosaurus dorsalis Testis Volumes (115 mm S-V)

1962

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT
105	351	173	185	141	25	32
119	217	173	94	131	87	52
113	320	82	232	184	151	45
133	162	38	47	141	128	45
110	298	62	286	73	106	
203	388	102	280	167	75	
	303	341	209	228		
	280	181	232	151		
	193	303	227	179		
	69	298	324	193		
	64	320	151	30		
	8	362	298	71		
	214	402	96	34		
	73	407	151	36		
	113	309		165		
	266	328		236		
	324			65		
	398			162		
	548					
	222					
	398					
	351					
TOTAL VOL. 783	5560	3881	2812	2387	572	174
MEAN 130.5	252.7	242.6	200.9	132.6	95.3	43.5
RANGE 105-203	8-548	38-407	94-324	30-236	25-151	32-52
NO. LIZARDS 6	22	16	14	18	6	4

Dipsosaurus dorsalis Testis Volumes (115+ mm S-V)

1962

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT
118	307	169	181	118	34	37
116	210	181	91	130	83	36
116	352	79	282	108	246	43
138	217	46	26	157	108	41
130	381	60	300	39	112	
133	485	83	280	172	73	
	309	282	214	223		
	331	293	250	197		
	266	303	275	190		
	88	285	344	150		
	55	355	203	36		
	10	360	324	97		
	241	479	89	39		
	141	439	161	27		
	137	415		162		
	192	343		193		
	422			77		
	456			161		
	525					
	183					
	420					
	486					
TOTAL VOL	751	6214	4172	3020	2276	656	157
MEAN	125.2	282.5	260.8	215.7	126.4	109.3	39.3
RANGE	116-138	10-525	46-479	26-344	27-223	34-246	36-43
NO. LIZARDS	6	22	16	14	18	6	4

Dipsosaurus dorsalis Testis ~~biology~~ volumes (115+mm-S-V).

1963

Left Testis

	Apr	May
	241	557
	45	499
	308	282
	251	
ΣX	845	1338
N	4	3
$\bar{X}$	211.2	446.0
Range	45-308	282-557

Right Testis

	Apr	May
	183	559
	39	696
	362	349
	225	
ΣX	809	1603
N	4	3
$\bar{X}$	202.2	534.3
Range	39-362	349-696

Dipsosaurus dorsalis Adults (115+ mm S-V)

⑮ Left testis anterior	⑯ Right testis anterior	⑰ Testes even
	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸	𝍸𝍸𝍸||
	𝍸|	

Dipsosaurus dorsalis Immature (< 115 mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
	~~IIII~~	II

Testis Volumes, *Dipsosaurus dorsalis* Adults (115+ mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸	𝍸𝍸|
𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸	
𝍸𝍸𝍸𝍸𝍸𝍸𝍸|||	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸||	

Testis Volumes, *Dipsosaurus dorsalis* Immature (< 115 mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸𝍸 𝍸𝍸𝍸 |||	𝍸𝍸 𝍸 𝍸𝍸 𝍸𝍸𝍸		𝍸	

Dipsosaurus dorsalis Adult ♂ (115+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar	𝍸			
Apr	𝍸𝍸	𝍸𝍸	𝍸	I
May	𝍸𝍸𝍸	I	II	III
Jun	𝍸𝍸	𝍸	I	I
Jul	𝍸𝍸	𝍸I	II	
Aug	II	III		I
Sep	III	I		
Oct				
Nov				
Dec				

Dipsosaurus dorsalis Immature ♂

	B	B1	B2	B3
Jan				
Feb				
Mar		1		
Apr	11			1
May	1		1	
Jun	11			
Jul	1	1		
Aug				
Sep				
Oct				
Nov				
Dec				

Dipsosaurus dorsalis Adult ♀ (110+ mm. S-V)

(19) LEFT OVARY ANTERIOR	(18) RIGHT OVARY ANTERIOR	(20) OVARIES EVEN
/	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ I	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~

Dipsosaurus dorsalis

EGGS IN OVIDUCT

	LEFT												RIGHT											
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10		0	1	2	3	4	5	6	7	8	9	10	
NO. of TAG																								
255			✓												✓									
294			✓												✓									
329		✓													✓									
513			✓											✓										
624			✓													✓								
640		✓													✓									
666			✓											✓										
676			✓											✓										

Dipsosaurus dorsalis

SIZE OF EGGS IN OVIDUCT

LIZARD 10.

	LEFT	RIGHT
	SIZE IN mm.	SIZE IN mm.
255	32.4 x 15.6 31.0 x 16.1	31.7 x 16.6 31.6 x 15.1
294	26.6 x 14.4 25.8 x 14.3	25.2 x 19.1 28.5 x 12.8
329	25.0 x 11.5	23.3 x 12.6 21.8 x 13.0
513	26.4 x 16.4 26.2 x 15.6	29.5 x 14.2
624	24.8 x 16.1 27.1 x 15.1	25.0 x 15.5 26.6 x 16.8 27.0 x 15.7
640	24.9 x 14.7	22.4 x 16.2 22.3 x 16.0
666	24.8 x 14.8 25.5 x 15.5	27.8 x 14.4
676	22.6 x 13.8 25.3 x 14.0	27.1 x 14.8
	N = 14	N = 14
	ΣX = 368.4 x 207.9	ΣX = 369.8 x 212.8
	$\bar{X}$ = 26.3 x 14.8 mm	$\bar{X}$ = 26.4 x 15.2 mm

N = 28

ΣX = 738.2 x 420.7

$\bar{X}$ = 26.4 x 15.0 mm

Range = 21.8 x 11.5 mm to 32.4 x 19.1 mm

Dipsosaurus dorsalis Adult (110+mm S-V)

# eggs	Left ovary	Right ovary
1		
2	1	
3	1	1
4	1	5
5	7	8
6	7	8
7	12	12
8	16	17
9	13	13
10	9	9
11	7	8
12	6	7
13	4	4
14	2	3
15	4	4
16	1	4
17		2
18		
19	1	1
20		

Dipsosaurus dorsalis Immature

# eggs	Left ovary	Right ovary
1		
2	I	
3		I
4	I	I
5	III	IIII
6	III	~~IIII~~
7	~~IIII~~ I	~~IIII~~
8	~~IIII~~ IV	~~IIII~~ IIII
9	~~IIII~~ I	~~IIII~~ ~~IIII~~
10	~~IIII~~ II	~~IIII~~ I
11	III	III
12	II	I
13	III	II
14		I
15		I
16	I	
17		
18		
19		
20		

Dipsosaurus dorsalis Adult ♀ (110+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar	II			
Apr	~~IIII~~ ~~IIII~~ II	IIII	II	III
May	IIII	I	III	I
Jun	IIII		I	
Jul	~~IIII~~ I			
Aug	~~IIII~~ II			
Sep	I	I		
Oct				
Nov				
Dec				

Dipsosaurus dorsalis Immature

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May				
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				

Dipsosaurus dorsalis

FAT BODIES

7

MONTH	ADULT ♂ (115+mm)	ADULT ♀ (110+mm)	IMMATURE ♂	IMMATURE ♀
JAN.				
FEB.				
MAR.				
APR.	𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸 ||||	/	/
MAY	𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	/	/||
JUN.	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	|||	/	||
JUL.	𝍸 ||||	/	/	/
AUG.	𝍸 ||||	𝍸 ||||		
SEPT.	/	𝍸		
OCT.				
NOV.				
DEC				

PHRYNOSOMA
M'CALLI

PHRYNOSOMA M'CALLI

Potentially Breeding ♂♂ 65[redacted] mm (S-V)

Smallest ♀ = [redacted] mm.
Largest ♂ = [redacted] mm.

Number ♀	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1959-64	0	8	13	9	20	15	1	0
1967	0	7	17	13	7	4	—	—
Total	0	15	30	22	27	19	1	0
+1968		18						

No ♀								
1959-64	1	4	5	3	1	0	1	3
1967	0	5	7	1	0	0	—	—
Total	1	9	12	4	1	0	1	3
+1968		0						

Total #									Total
1959-'64	1	12	18	12	21	15	2	3	84
1967	0	12	24	14	7	4	—	—	61
Total	1	24	42	26	28	19	2	3	~~145~~ 3
+1968		27							148

% ♀								
1959-'64	0	67	71	75	95	100	50	0
1967	0	58	71	93	100	100	—	—
Total	0	~~67~~	71	85	97	100	50	0

+1968 67

PHRYNOSOMA MCALLI

(1959-1964) Total Collected (Dissected)

Month	Imm. ♂	Imm. ♀	Imm. Total	Ad. ♂	Ad. ♀	Ad. Total
Jan	–	–	–	–	–	–
Feb	–	–	–	–	–	–
Mar	1	1	2	1	–	1
Apr	5	4	9	12	13	25
May	3	–	3	18	14	32
Jun	2	1	3	12	17	29
Jul	–	–	–	21	29	50
Aug	–	–	–	15	29	44
Sep	3	–	3	2	12	14
Oct	1	3	3	3	2	5
Nov	–	–	–	–	–	–
Dec	–	–	–	–	–	–
	15	9	24	84	116	200

TOTALS

1967

April	–	–	–	12	6	18
May	–	–	–	24	15	39
June	1	0	1	14	16	30
July	0	0	0	7	2	9
Aug	0	0	0	4	2	6
Sept.	0	0	0	0	0	0
Oct.	0	0	0	0	0	0
	1	0	1	61	41	102
1959-1967 Totals	16	9	25	145	157	302

Grand Total 327

1968

PHRYNOSOMA MCALLI REPRODUCTION CHART

MALE

ENLARGED TESTIS (> 7.5 mm²)

1959 7/21 - 7/21

1960 5/9 - 8/9

1961 4/15 - 8/15

1962 4/14 - 8/11

4/14 8/13

CONVOLUTED EPIDIDYMIS

1959 7/21 - 7/21

1960 5/9 - 8/9

1961 4/15 - 7/16

1962 4/14 - 7/16

4/14 - 7/16

OVIDUCTIVE SPERM

1959 [illegible] - 7/21

1960 5/9 - 8/9

1961 4/15 - 7/16

1962 4/14 - 5/11

4/14 - 7/16

FEMALE

OVA ACCUMULATED YOLK

1959 7/21 - 8/18

1960 5/9 - 8/9

1961 5/14 - 8/13

1962 4/14 - 8/12

4/14 - 8/17 (64)

P. M. (CONT.)

ENLARGED EGGS (> 7 MM)

1959 8/18

1960 5/9 - 8/1

1961 5/14 - 8/13

1962 4/14 - 8/12

4/14 - 8/17 (67)

CONVOLUTED OVIDUCTS

1959 7/21 - 8/18

1960 4/14 - 9/7

1961 4/16 - 9/13

1962 4/14 - 9/15

4/14 - 9/15

EGGS IN OVIDUCTS

1959 —

1960 5/9 - 6/9

1961 7/22 - 9/13

1962 7/11 - 9/6 1964 - 9/4

5/9 - 9/13 OK

CORPORA LUTEA

1959 —

1960 5/9 - 9/9

1961 7/22 - 9/13

1962 7/11 - 9/15

5/9 - 9/15

~~Phrynosoma~~ m'calli Testis Volumes (65+mm S-V)

1959

	Left Testis		Right Testis	
	JUN	JUL	JUN	JUL
	68	102	36	91
	45	148	42	131
	227		228	
TOTAL VOL	340	250	306	222
MEAN	113.3	125.0	102.0	111.0
RANGE	45-227	102-148	36-228	91-131
NO. LIZARDS	3	2	3	2

1960

	Left Testis				Right Testis			
	MAY	JUN	JUL	AUG	MAY	JUN	JUL	AUG
	127	280	193	209	131	237	214	189
	189				158			
TOTAL VOL	316	280	193	209	289	237	214	189
MEAN	158.0	280	193	209	144.5			
RANGE	127-189	—	—	—	131-158	—	—	—
NO. LIZARDS	2	1	1	1	2	1	1	1

Phrynosoma m'calli Testis Volumes (65+ mm SV)

1961

Leff & Dotts

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	44	97	63	75	223	119	13	29
		402	173	124	196	128		17
		105		93	~	141		
		65		79	113	228		
		201		119	208			
		94		84	213			
		237		33	41			
					236			
					141			
					201			
					214			
					330			
					197			
					197			
TOTAL VOL.	44	1201	236	607	2510	616	13	46
MEAN	44	171.6	118.0	86.7	193.1	154.0	13	23.0
RANGE	—	65–402	63–173	33–124	41–330	119–228	—	17–29
NO. LIZARDS	1	7	2	7	13	4	1	2

Phrynosoma mcalli Testis Volumes (65 + mm S-V)

1961

Right Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	34	107	72	61	144	131	19	13
		91	150	119	209	97		6
		105		97	214	162		
		69		67	96	205		
		197		93	205			
		80		65	181			
		185		31	47			
					312			
					125			
					188			
					151			
					256			
					113			
					193			
TOTAL VOL.	34	834	222	533	2434	595	19	19
MEAN	34	119.1	111.0	76.1	173.9	148.8	19	9.5
RANGE	—	69-197	72-150	31-119	47-256	97-205	—	6-13
NO. LIZARDS	1	7	2	7	14	4	1	2

Phrynosoma mcallii Testis Volumes (65 mm S-V)

1962

Left Testis

	APR	MAY	JUN	JUL	AUG
	246	41	237	251	141
	315	97	128	173	246
	116	99		134	147
	169	150			205
		48			185
		87			166
		131			128
		193			105
		205			
TOTAL VOL	846	1051	365	558	1323
MEAN	211.5	116.8	182.5	186.0	165.4
RANGE	116-315	41-205	128-237	134-251	105-246
NO. LIZARDS	4	9	2	3	8

Right Testis

	APR	MAY	JUN	JUL	AUG
	263	30	232	214	131
	266	105	138	154	242
	121	91		138	158
	~	138			173
		61			158
		65			138
		134			113
		184			105
		150			
TOTAL VOL.	650	958	370	506	1218
MEAN	216.7	106.4	185.0	168.7	152.3
RANGE	121-266	30-184	138-232	138-214	105-242
NO. LIZARDS	3	9	2	3	8

Phrynosoma m'calli. (65+ mm, S.V) Testis Vol.

1963

Left Testis

	Apr.	May
	—	141
	104	105
ΣX	104	246
N	1	2
$\bar{X}$	104	123
Range	104	105-141

Right testis

	Apr.	May.
	104	138
		24
ΣX	104	162
N	1	2
$\bar{X}$	104	81
Range	—	24-138

1964

	Aug	Oct
Left Testis	147	6
Right Testis	121	4

1967

Left Testis

Apr	May	May	June	July	Aug
151	110	42	124	223	162
131	73	222	131	173	192
141	193	113	151	162	210
102	292	95	141	210	104
63	97	89	185	266	
122	169	120	185	113	
154	67	53	269	87	
162	110	105	237		
128	69	162	105		
120	24	354	63		
69	97	141	61		
57	134	21	128		
~~Right Testis~~			173		
~~Apr May~~			96		
~~128~~					

1968

Apr.
251
320
141

1967

	ΣX	N
Apr.	1400	12
May	2931	24
June	2059	14
July	1234	7
Aug.	668	4

Testis Volumes, *Phrynosoma m'calli* Adults (65+ mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸	𝍸

Table 14-3

Testis Volumes, *Phrynosoma m'calli* Immature (<65 mm S-V)

Left testis larger	Right testis larger	Testes same size
IIII	IIII	II

Phrynosoma m'calli Adult (65 + mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
I	𝍸 𝍸 𝍸 II	𝍸 𝍸 I

Phrynosoma m'calli Immature (< 65 mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
I	III	I

Phrynosoma micalli Adult ♀ (65+ mm. S-V)

(19) LEFT OVARY ANTERIOR	(18) RIGHT OVARY ANTERIOR	(20) OVARIES EVEN
////	~~////~~ ~~////~~ ////	~~////~~ ~~////~~ ~~////~~ //

Phrynosoma m'calli

EGGS IN OVIDUCT

	LEFT											RIGHT										
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
NO. of TAG																						
21			✓											✓								
23			✓												✓							
95			✓													✓						
98				✓											✓							
106				✓												✓						
109				✓											✓							
116					✓										✓							
118			✓													✓						
126			✓											✓								
130			✓											✓								
171			✓											✓								
214			✓											✓								
315				✓										✓								

Phrynosoma m'calli

SIZE OF EGGS IN OVIDUCT

LIZARD NO.	LEFT SIZE IN mm.	RIGHT SIZE IN mm.
21	17.5 x 10.0; 17.1 x 10.4	16.5 x 10.2; 17.8 x 9.5
23	18.8 x 11.9; 18.4 x 11.6	19.2 x 12.1; 18.7 x 12.1; 20.0 x 12.3
95	15.0 x 9.1; 16.4 x 10.5	17.2 x 9.3; 15.0 x 10.0; 15.3 x 10.2; 16.1 x 9.0
98	14.6 x 10.5; 14.6 x 10.4; 14.5 x 11.2	15.1 x 10.7; 14.9 x 10.6; 14.8 x 9.0
106	14.5 x 10.9; 14.9 x 9.9; 15.0 x 10.0	15.5 x 10.9; 14.8 x 10.0; 14.6 x 11.1; 14.0 x 10.0
109	15.8 x 10.6; 14.8 x 10.4; 14.6 x 10.8	14.3 x 10.6; 15.3 x 10.9; 16.4 x 11.0
116	15.4 x 11.2; 14.4 x 10.3; 13.1 x 9.4; 13.6 x 10.3	13.3 x 10.5; 13.7 x 10.4; 14.4 x 10.3
118	16.9 x 10.8; 17.8 x 11.0	16.4 x 10.0; 16.6 x 10.0; 15.3 x 9.3; 16.4 x 10.7
126	16.6 x 10.8; 14.2 x 11.9	17.7 x 10.5; 15.7 x 10.4
130	15.9 x 10.4; 15.4 x 10.0	16.3 x 9.8; 17.4 x 9.4
171	17.2 x 11.3; 17.4 x 11.5	17.3 x 12.0; 18.2 x 11.7
214	17.3 x 11.2; 18.3 x 11.0	17.2 x 10.9; 17.4 x 10.9
	N = 29 ΣX = 460.0 x 309.3 $\bar{X}$ = 15.9 x 10.7 mm	N = 34 ΣX = 548.8 x 356.3 $\bar{X}$ = 16.1 x 10.5 mm
1967 Lizard Nos.		
315	16.1 x 9.7; 17.5 x 9.0; 17.0 x 10.5	17.8 x 11.4; 19.4 x 11.0
		N = 63 ΣX = 1008.8 x 665.6 $\bar{X}$ = 16.0 x 10.6 mm Range = 13.1 x 9.0 mm to 20.0 x 12.3 mm

Phrynosoma m'calli

OVA WITH YOLK

NUMBER OF OVA	LEFT OVARY	RIGHT OVARY
1	III	I
2	~~IIII~~ ~~IIII~~ ~~IIII~~ III	~~IIII~~ ~~IIII~~ ~~IIII~~ II
3	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ III	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ I
4	~~IIII~~ IIII	~~IIII~~ ~~IIII~~ III
5	III	
6		
7		
8		
9		
10		

Phrynosoma mcalli
FAT BODIES
(7)

MONTH ~~NUMBER~~	ADULT (65+mm) ♂	ADULT (65+mm) ♀	IMMATURE ♂	IMMATURE ♀
JAN.				
FEB.				
MAR.				
APR.	II	~~IIII~~	II	II
MAY	III	~~IIII~~ III		
JUN.	III	~~IIII~~ ~~IIII~~ III		
JUL.	~~IIII~~	~~IIII~~ ~~IIII~~ II		
AUG.		II		
SEPT.		II	II	
OCT.				
NOV.				
DEC.				

Phrynosoma m'calli Adult (65+ mm S-V)

(No. Eggs in Ovary)

	Left ovary	Right ovary
1		
	I	
2	I	
3		II
4	I	II
	III	IIII
5	~~IIII~~ I	~~IIII~~ ~~IIII~~ III
6	~~IIII~~ III	~~IIII~~ ~~IIII~~ ~~IIII~~ I
7	~~IIII~~ ~~IIII~~ ~~IIII~~	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~
8	~~IIII~~ ~~IIII~~ ~~IIII~~	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~
9	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~	~~IIII~~ ~~IIII~~ ~~IIII~~ III
10	~~IIII~~ ~~IIII~~ I	~~IIII~~ II
11	~~IIII~~ I	~~IIII~~ III
12	~~IIII~~ III	IIII
13	II	II
14	II	III
15	I	
16		I
17		
18		
19		
20		

Phrynosoma m'calli Immature

(No. Eggs in Ovary)

	Left ovary	Right ovary
1		
2		
3	II	
4	I	III
5	I	III
6	II	I
7	II	II
8	I	I
9	II	
10		
11		
12		
13		I
14		
15		
16		
17		
18		
19		
20		

PHRYNOSOMA

Potentially Breeding *Phrynosoma platyrhinos* ♂♂ (65 mm, S-V)

(smallest ♂ = 62 mm)
(largest ♂ = 96 "")

Date	# ♂	No ♂	Total	% ♂
Sept. '58	0	1	1	0
Oct.	0	1	1	0
Apr. '59	1	0	1	100
May			0	
June	2	1	3	67
July			0	
Aug.	2	0	2	100
Sept.	0	1	1	0
Mar. '60	0	3	3	0
Apr.	10	0	10	100
May	5	1	6	83
June	3	0	3	100
July	4	0	4	100
Aug.	2	1	3	67
Apr. '61	1	0	1	100
May			0	
June	2	0	2	100
July	1	0	1	100
Aug.			0	
Sept.	1	0	1	100
Apr. '62	2	0	2	100
May	5	1	6	83
May '63	0	2	2	0
Jun '63	1	1	2	50
Sep.	1	0	1	100
Mar. '64	1	0	1	100
Apr	5	0	5	100

Totals, 1958 - 1961

Month	# ♂	No ♂	Total	% ♂
Mar.	0	3	3	0
Apr.	12	0	12	100
May	5	1	6	83
June	7	1	8	86
July	5	0	5	100
Aug.	4	1	5	80
Sept.	1	2	3	33
Oct.	0	1	1	0
Total			43	

Totals, 1958 - 1963

Month	# ♂	No ♂	Total	% ♂
Mar.	0	3	3	0
Apr.	12	0	12	100
May.	10	4	14	71
Jun	8	2	10	80
Jul.	5	0	5	100
Aug.	4	1	5	80
Sep.	2	2	4	50
Oct.	0	1	1	0
			54	

Phrynosoma platyrhinos (65+mm, SV)

Left Testis Volume - Summary 1958 - 1963

Month	ΣX	N	$\bar{X}$
Mar	867	3	289.0
Apr.	5437	19	286.2
May	2165	11	196.8
Jun	~~1485~~ 1433	10	143.3
Jul	1004	5	200.8
Aug	581	5	116.2
Sep	111	4	27.8
Oct.	45	1	45

Phrynosoma platyrhinos - Testis volume (65+mm-SV)

1958

Left

	Sep	Oct
	~~23.57~~	~~45.16~~
	23	45
ΣX	23	45
$\bar{X}$	23	45
N	1	1
Range	—	—

Right

	Sep	Oct
	~~20.45~~	~~—~~
	20	45
ΣX	20	45
$\bar{X}$	20	45
N	1	1
Range	—	—

Phrynosoma platyrhinos - Testis volume (65+ mm S-V)
1959

Left

	Apr.	May	Jun	July	Aug	Sep.
	8	—	19	—	113	7
	97		36		171	
			68			
ΣX	105	—	123	—	284	7
$\bar{X}$	52.5	—	41.0	—	142	7
N	2	—	3	—	2	1
Range	8-97	—	19-68	—	113-171	—

Right

	Apr	May	Jun	July	Aug	Sep.
	13	—	16	—	110	5
	60		36		158	
			75			
ΣX	73	—	127	—	268	5
$\bar{X}$	36.5	—	42.3	—	134	5
N	2	—	3	—	2	1
Range	13-60	—	16-75	—	110-158	—

Phrynosoma platyrhinos - Testis volumes (65+ mm-S-V)

1960

Left

	March	Apr	May	Jun	Jul	Aug
	400	173	217	261	232	32
	282	479	34	309	169	85
	185	235	251	343	265	180
		233			188	
		381				
		443				
		450				
		320				
		582				
		208				
		138				
		242				
		261				
		429				
Σx	867	4574	502	913	854	297
$\bar{x}$	289.0	326.7	167.3	304.3	213.5	99.0
N	3	14	3	3	4	3
Range	185-400	138-582	34-251	261-343	169-265	32-180

Right

	Mar	Apr	May	Jun	Jul	Aug
	264	209	296	188	588	43
	309	421	24	251	184	101
	181	197	209	326	242	151
		332			166	
		356				
		326				
		309				
		448				
		165				
		99				
		256				
		280				
		381				
Σx	754	3779	529	765	1180	295
$\bar{x}$	251.3	290.7	176.3	255.0	295.0	98.3
N	3	13	3	3	4	3
Range	181-309	99-448	24-296	188-326	166-588	43-151

Phrynosoma platyrhinos - Testis volume (65+ mm, S-V)
1961

Left

	Apr	May	Jun	Jul	Aug	Sep
	141	—	128	150	—	34
			84			
ΣX	141	—	212	150	—	34
$\bar{X}$	141	—	106	150	—	34
N	1	—	2	1	—	1
Range	—	—	24-128	—	—	—

Right

	Apr	May	Jun	Jul	Aug	Sep
	131	—	104	118	—	34
			89			
ΣX	131	—	193	118	—	34
$\bar{X}$	131	—	96.5	118	—	34
N	1	—	2	1	—	1
Range	—	—	89-104	—	—	—

Phrynosoma platyrhinos - Testis volume (65+ mm, S-V)
1962

Left

	Apr	May
	280	280
	337	205
	~~[illegible]~~	251
	~~205~~	407
		401
		11
ΣX	617	1555
$\bar{X}$	308.5	259.2
N	2	6
Range	280-337	11-407

Right

	Apr	May
	256	237
	347	185
		196
		320
		266
		16
ΣX	603	1220
$\bar{X}$	301.5 ~~[illegible]~~	203.3
N	2	6
Range	256-347	16-320

Phrynosoma platyrhinos - Testis volume (65+mm, S-V)
1963

Left

	May	Jun		Sep
	52	151	—	47
	56	34		
ΣX	108	185		47
$\bar{X}$	54	92.5		47
N	2	2		1
range	52-56	34-151	—	—

Right

	May	Jun		Sep
	67	125		45
	57	24		
ΣX	124	149		45
$\bar{X}$	62	74.5		45
N	2	2		1
range	57-67	24-125	—	—

Testis Volumes, *Phrynosoma platyrhinos* Adults (65+ mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸𝍸𝍸𝍸𝍸𝍸𝍸	𝍸𝍸IIII	II

Testis Volumes, *Phrynosoma platyrhinos* Immature (< 65 mm S-V)

Left testis larger	Right testis larger	Testes same size
"	"	

Phrynosoma platyrhinos Adult (65+ mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(11) Testes even
I	~~IIII~~ IIIII	III

Phrynosoma platyrhinos Immature (< 65 mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even

Phrynosoma platyrhinos Adults (65+ mm S-V)

No.	Left ovary	Right ovary
1		
2		
3		
4		
5		
6		
7		
8		I
9	I	
10	III	
11	III	~~IIII~~
12	I	III
13	III	I
14	II	I
15		
16	III	III
17		II
18	I	I
19		
20		

Phrynosoma platyrhinos Immature

No.	Left ovary	Right ovary
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Phrynosoma platyrhinos

EGGS IN OVIDUCT

	LEFT												RIGHT											
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10		0	1	2	3	4	5	6	7	8	9	10	
NO. of TAG																								
33			✓														✓							
57				✓												✓								
63					✓											✓								
69		✓															✓							
71				✓													✓							

Phrynosoma platyrhinos

SIZE OF EGGS IN OVIDUCT

LIZARD NO.	LEFT SIZE IN mm.	RIGHT SIZE IN mm
33	16.8 x 9.7 17.0 x 8.0	16.0 x 9.6 17.0 x 10.3 17.1 x 10.0 16.6 x 10.4
57	15.6 x 10.0 16.4 x 10.0 16.9 x 9.7	15.9 x 10.4 15.7 x 10.5 16.5 x 9.9
63	13.8 x 9.5 14.0 x 10.0 13.8 x 9.5 13.7 x 9.7	13.6 x 10.4 14.8 x 9.7 15.1 x 10.6
69	17.8 x 11.8	16.5 x 11.0 16.4 x 10.8 16.1 x 10.7 17.2 x 10.0
71	15.1 x 11.0 14.5 x 11.4 16.3 x 11.2	16.7 x 11.0 15.3 x 11.6 14.3 x 10.5 15.8 x 11.8
	N = 13	N = 18
	ΣX = 201.7 x 131.5	ΣX = 286.6 x 189.2
	$\bar{X}$ = 15.5 x 10.1 mm	$\bar{X}$ = 15.9 x 10.5 mm

N = 31

ΣX = 488.3 x 320.7

$\bar{X}$ = 15.8 x 10.3 mm

Range = 13.6 x 8.0 mm to 17.8 x 11.8 mm

Phrynosoma platyrhinos

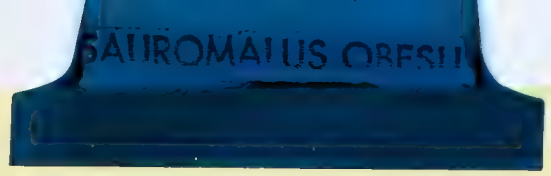
OVA WITH YOLK

NUMBER OF OVA	LEFT OVARY	RIGHT OVARY
1		
2	I	
3		I
4	I	II
5	I	
6		
7		
8		
9		
10		

Phrynosoma platyrhinos
FAT BODIES

(7)

MONTH	ADULT (65+mm.) ♂	ADULT (65+mm.) ♀	IMMATURE ♂	IMMATURE ♀
JAN.				
FEB.				
MAR.	II	1		
APR.	IIII IIII II			
MAY	IIII	6		
JUN.	IIII I	II 1		
JUL.	IIII	1		
AUG.	IIII 5	III 3		
SEPT.	I 2	1		
OCT.	1	1		
NOV.				
DEC.				


SAUROMALUS OBESU

SAUROMALUS OBESUS

Potential Breeders, *Sauromalus obesus* ♂♂ (170+ mm, S-V)

(smallest ♂ = 170 mm)
(largest ♂ = 210 "")

Date	# ♂	No ♂	Total	% ♂
Apr. '59	0	1	1	0
May	3	1	4	75
Apr. '60	0	1	1	0
May	3	0	3	100
June	9	0	9	100
July	0	2	2	0
Aug	0	2	2	0
May '61	0	1	1	0
June	2	1	3	67
July			0	
Aug.	0	2	2	0
Apr. '62	3	0	3	100
May	5	0	5	100
May '63	0	3	3	0

Totals, 1959–1961

Month	# ♂	No ♂	Total	% ♂
Apr.	0	2	2	0
May	6	2	8	75
June	11	1	12	91
July	0	2	2	0
Aug.	0	4	4	0
Total			28	

Totals, 1959–1963

Apr.	3	2	5	60
May	11	5	16	69
Jun	11	1	12	92
Jul.	0	2	2	0
Aug	0	4	4	0
			39	

Testis Volumes, *Sauromalus obesus* Adults (170+ mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸𝍸𝍸

Testis Volumes, *Sauromalus obesus* Immature (< 170 mm S-V)

Left testis larger	Right testis larger	Testes same size
I	II	

Sauromalus obesus Adults (170+ mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
I	II	~~IIII~~ II

Sauromalus obesus Immature (< 170 mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even

Sauromalus obesus Adult (120+ mm S-V)

No.	Left ovary	Right ovary
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		I
11	III	II
12	I	
13	II	I
14	II	I
15	I	IIII
16		
17	I	I
18	III	I
19	II	I
20	I	II
21		I
22	I	
23	I	I
24		I
25		
26		I
27	I	
28		II
29		
30		
31	I	

Sauromalus obesus Immature

No.	Left ovary	Right ovary
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

Sceloporus
graciosus

Sceloporus
graciosus

SCELOPORUS GRACIOSUS

TOTAL COLLECTED

MONTH	IMM			AD		
	♂	♀	TOTAL	♂	♀	TOTAL
JAN	–	–	–	–	–	
FEB	–	–	–	–	–	
MAR	–	–	–	–	–	
APR	2	–	2	39	12	51
MAY	1	1	2	68	51	119
JUN	2	1	3	41	24	65
JUL	14	5	19	51	65	116
AUG	2	2	4	58	50	108
SEP	1	1	2	27	13	40
OCT	–	–	–	–	–	–
NOV	–	–	–	–	–	
DEC	–	–	–	–	–	–
	22	10	32	284	215	499 TOTALS

[illegible]

[illegible]

ENLARGED TEARS (> 80 mm²)

1959 5/17 - 5/19, 8/11 - 8/14

1960 5/16 - 7/16

1961 4/11 - 8/21

1962 4/21 - 6/26, 8/18

1963 4/23 - 6/25, 8/11 - 8/18 4/17 - 7/20, 8/11 - 8/17

CONVOLUTED EPILIGYNIS

1959 5/20 - [illegible]

1960 5/22 - [illegible]

1961 [illegible] - 5/21

1962 4/20 - 7/25

1963 5/11 - 7/18 [illegible] - 7/25

MOTILE STAGES

1959 [illegible] 7/19

1960 5/15 - [illegible]

1961 [illegible] - 5/21

1962 5/11 - ~~[illegible]~~ 7/25

1963 5/11 - 7/18 ~~7/18~~ [illegible] 4/23 - 7/25

FEMALE

OVA MATURATED YOUNG

1959 5/11 - 5/21

1960 5/15 - 5/15

1961 4/1 - 5/21

1962 4/20 - 6/26

1963 5/11 - 7/16

4/11 - 7/16

S. G. (CONT.)

ENLARGED EGGS (> [illegible] mm)

1959 [illegible]

1960 [illegible]

1961 [illegible]

1962 [illegible]

1963 [illegible] [illegible] - [illegible] OK

CONVOLUTED OVIDUCTS

1959 [illegible]

1960 [illegible]

1961 [illegible]

1962 [illegible]

1963 [illegible] [illegible] [illegible]

EGGS IN OVIDUCTS

1959 5/11 - 5/17

1960 —

1961 —

1962 [illegible]

1963 [illegible] - 7/18 5/11 - 7/18

CORPORA LUTEA

1959 5/17

1960 7/16

1961 —

1962 [illegible]

1963 [illegible] - 7/18

[illegible] - [illegible] 5/17 - 7/25

Potential Breeders, Sceloporus graciosus ♂♂ (55+mm, S-V).
So. Calif.

Date	# ⑧	No ⑧	Total	% ⑧
May '59	10	1	11	91
Jul '59	0	2	2	0
Aug.	0	7	7	0
Sep.	0	9	9	0
May '60	3	0	3	100
Jul '60	0	5	5	0
Apr '61	8	10	18	44
May	16	0	16	100
Apr. '62	1	3	4	25
May	19	0	19	100
Jun	27	1	28	96
Jul.	11	7	18	61
Aug	0	12	12	0
Apr. '63	0	14	14	0
May	16	4	20	80
Jun	14	0	14	100
Jul.	22	2	24	92
Aug	0	28	28	0
Sep -	0	13	13	0

Totals, '59 - '63

Month	# ⑧	No ⑧	Total	% ⑧
Apr.	9	27	36	25
May	64	5	69	93
Jun	41	1	42	98
Jul.	33	16	49	67
Aug.	0	47	47	0
Sep.	0	22	22	0
Total			265	

Sceloporus graciosus Dissected for Reproduction Study

♂ = 55+ mm (S-V)
♀ = 50+ mm (S-V)

	1958 – 1962			1963		
	San Bernardino	San Gabriel	San Jacinto	San Bernardino	San Gabriel	San Jacinto
April						
♂	17	9	—	—	—	15
♀	7	5	—	—	—	—
May						
♂	12	11	27	4	10	6
♀	4	6	28	1	9	5
June						
♂	—	15	12	14	—	—
♀	—	6	9	9	—	—
July						
♂	—	22	2	6	11	10
♀	—	34	—	4	16	10
Aug.						
♂	15	8	3	12	10	10
♀	20	4	6	9	6	5
Sept.						
♂	9	2	1	11	4	—
♀	4	2	1	4	3	—

Sceloporus graciosus (♀♀)

+ = ova accumulating yolk
— = " not " "

San Bernardino Mts.

	1959	1960	1961	1962	1963
Apr.			+ (9th)		
May	+				+
June					+
July					—
Aug.				—	—
Sept.					—

Summary

Apr.	+
May	+
June	+
July	— S.B., S.G. + S.J.
Aug.	—
Sept.	—

San Gabriel Mts.

	1959	1960	1961	1962	1963
Apr.				+ (21st)	
May				+	+
June				+	
July				—	—
Aug.					—
Sept.					—

San Jacinto Mts.

	1959	1960	1961	1962	1963
Apr.					
May		+	+	+	+
June				+	
July					+
Aug.					—
Sept.					

Sceloporus graciosus (♀♀)

Lizard No.	Mountain Range	Date Caught	No. of Eggs L. Oviduct	No. of Eggs R. Oviduct
24	S. Bern.	5/17/59	2	3
25	"	"	2	3
215	S. Jac.	6/3/62	3	3
220	"	"	3	3
226	"	"	3	2
234	S. Gab.	6/26/62	2	2
236	"	"	2	2
239	"	"	2	3
375	S. Bern.	6/5/63	3	3
382	"	"	2	1
390	"	"	2	3
391	"	"	3	2
412	S. Jac.	7/16/63	1	1
420	"	"	1	2
426	"	"	2	2
444	S. Gab.	7/18/63	1	2
446	"	"	1	2
447	"	"	2	2
448	"	"	2	3

Sceloporus graciosus (♂♂)

+ = sperm present at terminal end of vas deferens
— = " not " " " " " " "

San Bernardino Mts.

	1959	1960	1961	1962	1963
Apr.			—(9th) +(23rd)		
May	+				few + (12th)
June					+
July					+
Aug.	—			—	—
Sept.	—				—

Summary	
Early Apr.	—
Late Apr.	+
May	+
June	+
July	+
Aug.	—
Sept.	—

San Gabriel Mts.

	1959	1960	1961	1962	1963
Apr.				—(21st) +(24th)	
May				+	+
June				+	
July		—		few +	+
Aug.	—				—
Sept.	—				—

San Jacinto Mts.

	1959	1960	1961	1962	1963
Apr.					—(24th)
May		+	+	+	+
June				+	
July					+
Aug.					—
Sept.					

Sceloporus graciosus (55+ mm, S-U)

Left Testis volume - Summary 1959-1963.

Month	ΣX	N	$\bar{X}$
Apr.	7401	38	194.8
May	13728	68	201.9
Jun	4586	40	114.6
Jul.	1201	48	25.0
Aug	2436	53	46.0
Sep.	2811	25	112.4

Sceloporus gracionus Testis Volumes (55+ mm S-V)

1958

Left Testis

	AUG	SEPT
	132	123
	33	78
	32	
TOTAL VOL	197	201
MEAN	65.7	100.5
RANGE	32-132	78-123
NO. LIZARDS	3	2

Right Testis

	AUG	SEPT
	82	135
	20	65
	21	
TOTAL VOL	123	200
MEAN	41.0	100.0
RANGE	20-82	65-135
NO. LIZARDS	3	2

Sceloporus graciosus Testis Volumes (55+ mm S-V)

1959

Left Testis

	MAY	JUN	JUL	AUG	SEPT
	115	—	7	78	108
	123		15	91	67
	102			118	137
	149			33	69
	133			71	88
	113			20	117
	118			16	59
	55			53	47
	102			13	143
	229			36	16
TOTAL VOL	1239	0	22	529	851
MEAN	123.9	0	11.0	52.9	85.1
RANGE	55-229	0	7-15	13-118	16-143
NO. LIZARDS	10	0	2	10	10

Right Testis

137	—	11	78	131
118		11	107	84
105			131	115
132			35	73
145			76	75
104			16	69
165			13	53
61			63	61
125			17	157
179			24	25
TOTAL VOL 1271	0	22	560	843
MEAN 127.1	0	11.0	56.0	84.3
RANGE 61-179	0	—	13-131	25-157
NO. LIZARDS 10	0	2	10	10

Sceloporus gracionus Testis Volumes (55+ mm S-V)

1960

Left Testis

	MAY	JUN	JUL
	176	—	12
	281		38
	240		11
			11
			111
TOTAL VOL	697	0	183
MEAN	232.3	0	36.6
RANGE	176-281	0	11-111
NO. LIZARDS	3	0	5

Right Testis

	MAY	JUN	JUL
	233	—	12
	235		24
	220		9
			41
			55
TOTAL VOL	688	0	191
MEAN	229.3	0	38.2
RANGE	220-235	0	9-55
NO. LIZARDS	3	0	5

~~Sceloporus~~ gracionus Testis Volumes (55th mm S-V)

1961

Left Testis

APR	MAY
211	167
165	184
178	240
205	147
149	217
232	286
217	235
200	203
205	312
154	288
203	183
263	252
266	361
220	217
153	273
220	153
323	
254	
TOTAL VOL 3818	3718
MEAN 212.1	232.4
RANGE 149-323	147-361
NO. LIZARDS 18	16

Sceloporus graciosus Testis Volumes (55+mm S-V)

1961

Right Testis

APR	MAY
176	134
167	179
157	208
246	120
101	251
286	222
220	193
171	210
125	265
149	208
222	208
217	196
188	208
228	280
249	222
187	124
246	
238	
TOTAL VOL 3573	3228
MEAN 198.5	201.8
RANGE 101-286	120-280
NO. LIZARDS 18	16

Sceloporus graciosus Testis Volumes (55+mm S-V)

1962

Left Testis

APR	MAY	JUN	JUL	AUG
111	157	124	10	42
198	213	132	11	57
149	157	193	20	44
222	129	203	22	32
328	173	111	18	67
256	244	104	8	73
	168	149	27	94
	208	155	11	67
	208	121	11	30
	208	116	24	42
	168	235	22	63
	153	179	13	51
	188	53	11	
	176	102	32	
	308	51	7	
	259	68	20	
	259	53	13	
	252	111		
	222	67		
		149		
		102		
		70		
		111		
		105		
		57		
		93		
		39		

	APR	MAY	JUN	JUL	AUG
TOTAL VOL	1264	3850	3053	280	662
MEAN	210.7	202.6	113.1	16.5	55.2
RANGE	111-328	129-308	39-235	7-27	30-97
NO. LIZARDS	6	19	27	17	12

~~Sceloporus gracionus~~ Testis Volumes (55+mm S-V)

1962

Right Testis

APR	MAY	JUN	JUL	AUG
130	200	139	7	53
184	210	145	12	47
121	198	205	18	33
208	128	131	24	24
302	150	154	15	59
280	213	122	8	57
	158	141	19	104
	180	128	9	66
	246	123	11	42
	222	135	19	41
	108	203	18	60
	149	193	13	38
	182	51	16	
	211	81	25	
	334	53	7	
	214	76	13	
	217	48	11	
	220	109		
	230	67		
		120		
		82		
		78		
		105		
		118		
		53		
		90		
		53		

	APR	MAY	JUN	JUL	AUG
TOTAL VOL.	1225	3770	3003	245	624
MEAN	204.2	198.4	111.2	14.4	52.0
RANGE	121-302	108-334	48-205	7-25	24-104
NO. LIZARDS	6	19	27	17	12

Sceloporus graciosus - Testis volume (55+mm, S-V)

1963

Left Testis

Apr	May	Jun	Jul	Aug	Sep
200	208	111	13	42	146
165	176	122	40	24	161
165	184	105	11	20	131
188	150	111	44	84	171
118	249	108	42	69	55
128	230	118	8	28	145
168	198	169	34	36	150
184	268	107	18	6	223
182	308	102	52	62	188
198	273	105	42	42	85
157	200	132	16	30	46
154	188	135	45	17	121
158	230	108	36	6	137
149	191		78	16	
	236		58	17	
	176		11	13	
	208		21	20	
	121		20	6	
	179		38	11	
	238		16	16	
			32		
			15	77	
			16	70	
			10	78	
				16	
				81	
				82	
				55	
				24	

	Apr	May	Jun	Jul	Aug	Sep.
ΣX	2319	4224	1533	716	1048	1759
N	14	20	13	24	28	13
$\bar{X}$	167.3	211.0	117.9	29.8	37.4	135.3
range						

Sceloporus graciosus - Testis volume (55+, S-V)

1963

Right Testis

Apr	May	Jun	Jul	Aug	Sep.
149	217	104	13	59	123
124	269	139	33	19	104
200	235	120	8	26	120
208	178	128	44	77	184
121	328	140	30	81	50
149	246	128	13	28	121
149	203	193	53	30	164
149	269	120	30	6	186
203	286	132	42	42	154
149	278	139	43	39	83
150	269	120	13	30	24
149	203	137	31	17	139
139	258	108	39	6	107
147	162		78	8	
	263		75	22	
	193		8	9	
	229		19	16	
	188		16	5	
	182		26	10	
	246		15	11	
			38	57	
			13	78	
			18	55	
			11	13	
				61	
				81	
				38	
				24	

	Apr	May	Jun	Jul	Aug	Sep
ΣX						
N	14	20	13	24	28	13
$\bar{X}$						
Range						

Scaloporus graciosus

FAT BODIES

7

MONTH	ADULT ♂ (55+ mm.)	ADULT ♀ (50+ mm.)	IMMATURE ♂	IMMATURE ♀
JAN.				
FEB.				
MAR.				
APR.	52			
MAY	70	5		1
JUN.	13	2	1	1
JUL.	65	70		4
AUG.	51	64	1	1
SEPT.	13	2	1	1
OCT.				
NOV.				
DEC.				

Testis Volumes, *Sceloporus graciosus* Adults (55+ mm S-V)

Left testis larger	Right testis larger	Testes same size
121		

Testis Volumes, *Sceloporus graciosus* Immature (< 55 mm S-V)

Left testis larger	Right testis larger	Testes same size
~~IIII~~	IIII	I

Sceloporus graciosus Adults (55+mm S-V)

⑮ Left testis anterior	⑯ Right testis anterior	⑰ Testes even
	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸 𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸 𝍸𝍸||||	|

Sceloporus graciosus Immature (< 55 mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(11) Testes even
	~~	

Sceloporus graciosus Adult ♂ (55+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr			卌 卌 卌 卌	1
May			卌 卌 卌 1111	卌 卌 卌 卌
Jun		1	卌 卌 卌 卌 卌 卌 卌 1	卌 1111
Jul		卌 1	卌 卌 卌 卌 卌 卌 卌 卌 11	1
Aug		11	卌 卌 卌 卌 卌 卌 卌 卌	11
Sep				
Oct				
Nov				
Dec				

Sceloporus graciosus Immature

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr			I	
May				
Jun		I	II	
Jul		II	~~IIII~~ IIII	
Aug				
Sep				
Oct				
Nov				
Dec				

Sceloporus graciosus Adult (50+ mm. S-V)

(19) LEFT OVARY ANTERIOR	(18) RIGHT OVARY ANTERIOR	(20) OVARIES EVEN
	𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸
		𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸
		𝍸 𝍸 𝍸 𝍸

Sceloporus graciosus

EGGS IN OVIDUCT

	LEFT											RIGHT										
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
NO. of TAG																						
25			✓												✓							
215				✓											✓							
220				✓											✓							
226				✓										✓								
234			✓											✓								
236			✓											✓								
239			✓												✓							
375				✓											✓							
382			✓										✓									
390			✓												✓							
391				✓										✓								
412		✓											✓									
420		✓												✓								
426			✓											✓								
444		✓												✓								
446		✓												✓								
447			✓											✓								
448			✓												✓							
24			✓												✓							

Sceloporus gracionus

SIZE OF EGGS IN OVIDUCT

LIZARD NO.	LEFT	RIGHT
	SIZE IN mm.	SIZE IN mm.
24	12.3x8.1 12.3x7.8	13.5x7.8 14.4x8.3 14.8x8.4
25	11.4x7.5 11.3x6.9	12.0x7.8 11.3x8.0 11.6x8.4
215	12.0x8.3 12.3x8.3 12.0x8.3	12.3x7.8 12.6x7.4 12.5x8.0
220	11.4x8.4 12.0x9.0 11.6x8.7	11.9x7.8 11.3x8.3 12.0x8.0
226	12.3x8.0 10.5x8.7 11.4x8.3	12.0x7.5 12.8x8.3
234	13.5x8.4 14.4x7.7	14.0x8.3 13.5x8.9
236	10.5x7.5 12.0x7.2	12.0x7.5 12.0x8.6
239	11.6x7.8 12.2x8.6	12.3x8.7 12.0x8.0 12.6x8.1
375	12.3x7.5 11.1x6.8 11.4x7.2	12.0x6.9 11.4x7.5 9.0x7.4
382	12.8x7.5 11.4x8.6	13.8x8.0
390	12.5x8.1 12.6x8.7	12.0x8.7 12.5x8.1 11.6x7.4
391	12.0x8.4 11.6x8.0 11.1x7.4	12.0x7.7 13.5x7.5
412	13.8x8.3	15.6x9.0
420	14.1x7.8	13.7 7.4 13.7x8.4
426	12.5x8.0 12.9x8.3	13.8x9.3 13.5x9.2
444	14.4x8.3	14.0x8.3 14.0x8.9
446	15.0x7.4	13.8x7.8 14.1x7.8
447	13.8x8.3 13.5x8.0	12.9x8.1 12.5x7.8
448	11.7x8.7 12.8x6.9	12.5x8.3 11.7x8.0 11.4x8.3 (broken)
	N = 39	N = 44
	ΣX = 480.3 x 311.7	ΣX = 558.4 x 355.7
	$\bar{X}$ = 12.3 x 8.0 mm	$\bar{X}$ = 12.7 x 8.1 mm

N = 83

ΣX = 1038.7 x 667.4

$\bar{X}$ = 12.5 x 8.0 mm

Range = 9.6 x 6.8 mm to 15.6 x 9.3 mm

Sceloporus graciosus

OVA WITH YOLK

NUMBER OF OVA	LEFT OVARY	RIGHT OVARY
1	𝍸 𝍸	𝍸 𝍸 |
2	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 ||||	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 |
3	𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸 𝍸 ||||
4	||	||
5	|	
6		
7		
8		
9		
10		

Sceloporus graciosus Adult (50+ mm S-V)

No. Ova	Left ovary	Right ovary
1		
2		
3	卌	II
4	卌 IIII	卌 卌 III
5	卌 卌 卌 卌 卌	卌 卌 卌 卌 卌 卌
6	卌 卌 卌 卌 卌 卌 卌 卌 卌 IIII	卌 卌 卌 卌 卌 卌 卌 IIII
7	卌 卌 卌 卌 卌 卌 卌 卌 III	卌 卌 卌 卌 卌 卌 卌 卌 II
8	卌 卌 卌 卌 卌 卌 卌 IIII	卌 卌 卌 卌 卌 卌 III
9	卌 卌 卌 卌 II	卌 卌 卌 IIII
10	卌 卌 III	卌 卌 IIII
11	III	卌 I
12	I	III
13		I
14		I
15		
16		
17		
18	I	
19		
20		
21		
22		

Sceloporus graciosus Immature

No.	Left ovary	Right ovary
1		
2	I	
3		I
4	II	I
5	I	I
6	III	I
7	I	III
8	I	II
9		
10		
11		
12		
13		
14		
15		I
16		
17		
18		
19		
20		
21	I	
22		

Sceloporus graciosus Adult ♀ (50+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr	11	111		
May	卌卌111	卌卌	111	1
Jun	111	11	卌卌	卌111
Jul	卌卌卌111	卌卌11	卌卌	卌卌1
Aug	卌卌卌111	卌卌111	1111	
Sep				
Oct				
Nov				
Dec				

Sceloporus graciosus Immature ♀

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May 1				
Jun 1				
Jul 11		11		
Aug 1				
Sep				
Oct				
Nov				
Dec				

Sceloporus magister

Total Collected (thru March 1967)

Month	IMM. ♂	IMM. ♀	IMM. Total	ADULT ♂	ADULT ♀	ADULT Total	Grand Total
JAN	—	—	—				
FEB	—	—	—				
MAR	—	1	1				
APR	1	—	1	22	7	29	
MAY	1	1	2	14	7	21	
JUNE	3	2	5	16	18	34	
JULY	8	11	19	16	11	27	
AUG	6	4	10	9	13	22	
SEPT	4	3	7	10	2	12	
OCT	—	1	1	7	6	13	
NOV	—	—	—	—	—	—	
DEC	—	—	—	—	—	—	
Total	23	23	46				

SCLEROPERCA MAGISTER REPRODUCTION CHART

MALE

ENLARGED TESTIS (> 100 mm²)

1959 [illegible]

1960 [illegible]

1961 [illegible]

1962 [illegible]

[illegible]

CONVOLUTED EPIDIDYMIS

1959 [illegible]

1960 [illegible]

1961 [illegible]

1962 [illegible]

[illegible]

MOTILE SPERM

1959 [illegible]

1960 [illegible]

1961 [illegible]

1962 [illegible]

~~[illegible]~~ 4/22 – 6/26

FEMALE

OVA ACCUMULATED YOLK

1959 ~~10/11~~

1960 4/2

1961 –

1962 4/22 – 6/27

[illegible] – ~~[illegible]~~ 6/27

S. B. Cent.

ENCAPSULATED EGGS (7 4 [illegible])

1959 —

1960 4/12

1961 —

1962 4/22 - 6/27

4/12 - 4/27

CONDITIONED CYCLES

1959 5/8 - 10/11

1960 4/12 - 5/21

1961 —

1962 4/22 - 8/18

4/12 - 10/11

EGGS IN CYCLES

1959 —

1960 5/20 - 5/21

1961 —

1962 6/27 - 6/27

5/20 - 6/27 OK

HORMONAL CYCLE

1959 -

1960 5/20 - 5/21

1961 -

1962 6/27 - 6/27

5/20 - 6/27

Potential Breeders, *Sceloporus magister* ♂♂ (85+ mm, S-V)

(smallest ♂ = 92 mm.)
(largest ♂ = 119 ")

Date	# ♂	No ♂	Total	% ♂
Apr. '59	0	1	1	0
May	1	1	2	50
June	2	0	2	100
July	0	7	7	0
Aug.	0	5	5	0
Sept.	0	5	5	0
Oct.	0	7	7	0
Mar. '60	0	4	4	0
Apr.	0	3	3	0
May	4	0	4	100
June			0	
July	0	1	1	0
May '61	2	0	2	100
June			0	
July			0	
Aug.	0	1	1	0
Sept.	0	1	1	0
Apr. '62	18	0	18	100
May	4	0	4	100
Jun	12	2	14	86
Jul.	4	3	7	57
Aug	1	1	2	50
Sep.	0	1	1	0
Sep. '63			0	
May '64	1	0	1	100

Month	# ♂	No ♂	Total	% ♂
Mar.	0	4	4	0
Apr.	0	4	4	0
May	7	1	8	88
June	2	0	2	100
July	0	8	8	0
Aug.	0	6	6	0
Sept.	0	6	6	0
Oct.	0	7	7	0
Total			45	

Totals, 1959-1963.

~~Month~~ Mar. ~~Apr~~	# ♂	No ♂	Total	% ♂
Apr.	18	4	22	82
May	11	1	12	92
Jun.	14	2	16	88
Jul.	4	11	15	27
Aug.	1	7	8	12
Sept.	0	7	7	0
Oct.	0	7	7	0
Total			91	

Sceloporus magister (85+ mm, S-V)

Left testis volume - Summary 1959-1962

Month	ΣX	N	$\bar{X}$	To March 1967 ΣX	N	$\bar{X}$
Mar.	1273	4	(318.2) ~~[illegible]~~			
Apr.	7672	22	348.7	same		
May	3141	12	261.8	4148	14	296
Jun	1931	16	120.7		same	
Jul	542	16	33.9		same	
Aug	385	9	42.8		same	
Sep	477	7	68.1		9	73
Oct.	885	7	126.4		same	

Sceloporus magister Testis Volumes (85+ mm S-V)

1959

Left Testis

	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	141	25	97	38	33	36	134
		120	22	69	27	45	84
				26	39	63	141
				33	25	30	171
				32	34	205	128
				45			99
				27			128
TOTAL VOL	141	145	119	270	158	379	885
MEAN	141	72.5	59.5	38.6	31.6	75.8	126.4
RANGE	—	25-120	22-97	26-69	25-39	30-205	84-134
NO. LIZARDS	1	2	2	7	5	5	7

Right Testis

	APR	MAY	JUN	JUL	AUG	SEPT	OCT
	121	33	147	25	31	33	145
		205	17	63	15	24	89
				22	27	57	161
				30	20	19	163
				31	25	188	143
				30			75
				24			119
TOTAL VOL	121	238	164	225	118	321	895
MEAN	121	119.0	82.0	32.1	23.6	64.2	127.9
RANGE	—	33-205	17-147	22-63	15-31	19-188	75-163
NO. LIZARDS	1	2	2	7	5	5	7

Sceloporus magister Testis Volumes (85+ mm S-V)

1960

	Left Testis					Right Testis				
	MAR	APR	MAY	JUN	JUL	MAR	APR	MAY	JUN	JUL
	299	422	227	—	10	278	303	144	—	8
	425	232	110		39	328	184	111		34
	208	483	198			161	348	181		
	341		361			282		298		[redacted]
TOTAL VOL	1273	1137	896	0	49	1049	835	734	0	42
MEAN	318.3	379.0	224.0	0	24.5	262.3	278.3	183.5	0	21.0
RANGE	208-425	232-483	110-361	0	10-39	161-328	184-348	111-298	0	8-34
NO. LIZARDS	4	3	4	0	2	4	3	4	0	2

1961

	Left Testis					Right Testis				
	MAY	JUN	JUL	AUG	SEPT	MAY	JUN	JUL	AUG	SEPT
	284	—	—	30	27	341	—	—	25	24
	348					298				
TOTAL VOL	632	0	0	30	27	639	0	0	25	24
MEAN	316	0	0	30	27	319.5	0	0	25	24
RANGE	284-348	0	0	—	—	298-341	0	0	—	—
NO. LIZARDS	2	0	0	1	1	2	0	0	1	1

Sceloporus magister Testis Volumes (85+ mm S-V)

1962

Leo J. Vestis

APR	MAY	JUN	JUL	AUG	SEPT
280	348	189	27	27	71
328	457	230	36	65	
344	448	102	32	105	
312	215	163	18		
425		97	39		
394		41	36		
294		11	35		
292		134			
280		55			
440		169			
499		208			
358		89			
456		131			
334		193			
217					
298					
312					
531					
TOTAL VOL	6394	1468	1812	223	197	71
MEAN	355.2	367.0	129.4	31.9	65.7	71
RANGE	217-531	215-457	11-230	18-39	27-105	—
NO. LIZARDS	18	4	14	7	3	1

Sceloporus magister Testis Volumes (85+ mm S-V)

1962

Right ~~Left~~ Testis

APR	MAY	JUN	JUL	AUG	SEPT
275	348	189	27	27	71
258	457	230	36	65	
237	448	102	32	105	
269	215	163	18		
348		97	39		
495		41	36		
286		11	35		
237		134			
343		56			
348		169			
365		208			
312		89			
448		131			
341		193			
233					
356					
296					
461					
TOTAL VOL 5908	1468	1813	223	197	71
MEAN 328.2	367.0	129.5	31.9	65.7	71
RANGE 233-495	215-457	11-230	18-39	27-105	—
NO. LIZARDS 18	4	14	7	3	1

Testis Volumes, Sceloporus magister Adult (75+ mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸 𝍸 ||||	𝍸𝍸𝍸𝍸𝍸𝍸 |||	

Testis Volumes, *Sceloporus magister* Immature (>15mm S-V)

Left testis larger	Right testis larger	Testes same size
~~IIII~~ II	I	

Sceloporus magister Adults (75+ mm S-V)

⑮ Left testis anterior	⑯ Right testis anterior	⑰ Testes even
	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸||	||||

Sceloporus magister Immature (< 75 mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
	1	

Sceloporus magister Adult ♂ (75+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar			ll	
Apr			ll	~~llll~~~~llll~~~~llll~~l
May				~~llll~~
Jun		l	~~llll~~ll	~~llll~~~~llll~~ll
Jul			l	~~llll~~
Aug				~~llll~~
Sep			l	l
Oct				
Nov				
Dec				

Sceloporus magister Immature

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May				
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				

Sceloporus magister Adult (75+ mm S-V)

(19) LEFT OVARY ANTERIOR	(18) RIGHT OVARY ANTERIOR	(20) OVARIES EVEN
II	~~IIII~~	~~IIII~~ ~~IIII~~

Sceloporus magister
EGGS IN OVIDUCT

	LEFT											RIGHT										
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
NO. of TAG																						
116					✓													✓				
119						✓											✓					
149						✓											✓					
174						✓											✓					
177					✓												✓					
178					✓												✓					
180						✓										✓						
206					✓											✓						

Sceloporus magister

SIZE OF EGGS IN OVIDUCT

LIZARD NO.	LEFT	RIGHT
	SIZE IN mm.	SIZE IN mm.
116	18.3 x 10.6; 17.4 x 9.9; 16.5 x 9.6; 18.8 x 10.2	18.1 x 9.6 17.1 x 10.3 17.6 x 11.1 16.6 x 10.7 17.3 x 9.5 17.4 x 10.7
119	19.8 x 10.4; 17.8 x 9.9; 17.8 x 11.0; 18.8 x 11.4; 19.1 x 10.6	18.8 x 10.5 18.5 x 10.7 17.9 x 10.6 18.5 x 10.1 18.3 x 10.5
149	— — — — —	— — — — —
174	17.8 x 10.2; 17.7 x 10.3; 17.9 x 9.5; 17.6 x 9.7; 19.0 x 10.5	18.0 x 9.7; 18.2 x 11.7; 18.9 x 11.1; 17.3 x 10.4; 17.7 x 10.5
177	15.7 x 10.0; 16.5 x 10.4; 17.4 x 10.5; 17.3 x 10.0	16.5 x 10.0; 16.8 x 9.6; 17.0 x 11.1; 19.3 x 10.0; 18.7 x 10.6
178	19.1 x 10.4; 19.7 x 10.3; 20.1 x 12.0; 20.9 x 12.2	20.6 x 10.0; 18.2 x 11.5; 18.6 x 10.5; 19.8 x 11.4; 18.9 x 10.0
180	17.2 x 10.2; 16.8 x 10.5; 15.7 x 11.8; 17.0 x 10.8; 17.3 x 11.0	16.9 x 10.0; 17.0 x 11.2; 16.7 x 10.5; 17.0 x 11.2
206	15.9 X 9.5; 16.2 x 10.9; 16.3 X 9.9; 15.0 X 11.1	15.8 X 11.0; 16.0 X 11.0; 17.7 X 12.5; 17.3 X 11.8
	N = 31	N = 34
	ΣX = 548.4 X 325.5	ΣX = 600.0 X 361.6
	$\bar{X}$ = 17.7 X 10.5 mm	$\bar{X}$ = 17.6 X 10.6 mm

N = 65

ΣX = 1148.4 X 687.1

$\bar{X}$ = 17.7 X 10.6 mm

Range = 12.4 X 9.5 mm to 20.9 X 12.5 mm

Sceloporus magister

OVA WITH YOLK

NUMBER OF OVA	LEFT OVARY	RIGHT OVARY
1		
2		I
3 I		IIII
4 IIIII		IIII
5 III		III
6 I		I
7 I		
8		
9		
10		

Sceloporus magister

FAT BODIES

7

MONTH	ADULT ♂ (85+mm.)	ADULT ♀ (75+mm.)	IMMATURE ♂	IMMATURE ♀
JAN.				
FEB.				
MAR.	~~IIII~~ I	I		
APR.	III	~~IIII~~		
MAY	~~IIII~~ I	II		
JUN.	~~IIII~~ ~~IIII~~ IIII	~~IIII~~ ~~IIII~~ I		
JUL.	~~IIII~~ ~~IIII~~ II	~~IIII~~ IIII		
AUG.	III	~~IIII~~ II		
SEPT.	II	II		
OCT.	II	I		I
NOV.				
DEC.				

Sceloporus magister Adult (75+ mm S-V)

No.	Left ovary	Right ovary
5	I	
6		
7		
8		I
9	I	III
10	I	
11	I	
12		I
13		II
14	IIII	II
15	~~IIII~~	IIII
16	~~IIIIII~~	~~IIII~~II
17	~~IIII~~II	~~IIIIII~~
18	~~IIII~~II	~~IIII~~II
19	IIII	~~IIII~~I
20	~~IIII~~	~~IIII~~
21	IIII	III
22	II	IIII
23	II	II
24	II	I
25	I	
26	I	I
27	I	I
28	II	
29	I	II
30		
31	I	I
32		I
33		
34		

Sceloporus magister Adult (75+mm S-V)

No.	Left ovary	Right ovary
35		
36		
37		
38		
39		

Sceloporus magister Immature

No.	Left ovary	Right ovary
5		
6		I
7		
8	II	I
9	IIII	III
10		II
11	II	IIII
12	~~IIII~~	III
13	IIII	~~IIII~~
14		
15	I	
16	II	I
17		II
18	I	I
19	I	
20		
21		
22		
23	I	
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		

Sceloporus magister Adult ♀ (75+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr IIII				
May				
Jun III		~~IIII~~ ~~IIII~~ I		
Jul ~~IIII~~				
Aug ~~IIII~~				
Sep				
Oct				
Nov				
Dec				

Sceloporus magister Immature

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May				
Jun				
Jul				
Aug				
Sep				
Oct				
Nov				
Dec				

SCELOPORUS
OCCIDENTALIS

SCELOPORUS OCCIDENTALIS

TOTAL COLLECTED

MONTH	IAM.			AD			
	♂	♀	TOTAL	♂	♀	TOTAL	
JAN	–	–	–	1	–	1	
FEB	3	9	12	17	–	17	
MAR	7	9	16	42	24	66	
APR	7	5	12	55	23	78	
MAY	7	8	15	81	39	120	
JUN	12	3	15	42	25	67	
JUL	17	10	27	32	27	59	
AUG	11	3	14	32	32	64	
SEP	2	1	3	12	11	23	
OCT	–	–	–	11	7	18	
NOV	–	–	–	4	2	6	
DEC	–	–	–	–	–	–	
	66	48	114	329	190	519	TOTALS

SUBJECTS [illegible] [illegible] [illegible]

MALE

ENLARGED TESTIS (>100 mm³)

1959 3/3 - 5/29, 8/29 - 10/11

1960 3/14 - 5/28, 11/1 - 11/29

1961 1/18 - 5/25

1962 3/28 - 6/23

1/18 - 6/26, 8/21 - 11/21

CONNECTED EPIDIDYMIS

1959 4/14 - 6/23

1960 3/14 - 5/28

1961 2/25 - 5/25

1962 3/28 - 7/25

2/24 (64) - 7/25

MOTILE SPERM

1959 3/3 - 6/23

1960 3/14 - 5/28

1961 2/25 - 5/25

1962 3/28 - ~~[illegible]~~ 7/25

1/25 - ~~[illegible]~~ 7/25

FEMALE

SUB-INCUBATED YOLK

1959 4/14 - 7/29

1960 4/12 - 5/28

1961 3/8 - 5/21

1962 3/28 - 6/20

3/8 - 7/20

S. 2. (CONT.)

ENLARGED EGGS (> 3 mm)

1959 [illegible] - 7/23

1960 [illegible] - 7/28

1961 5/13 - 5/21

1962 [illegible] - 6/20

[illegible] - 7/23

CONSUMED EGGS

1959 [illegible]

1960 [illegible] - 11/24

1961 [illegible] - 6/23

1962 5/28 - 7/2[illegible]

3/8 - 7/24

EGGS IN BURROWS

1959 5/1 - 5/11

1960 5/28

1961 4/23 - 5/21

1962 4/30 - 6/27

7/29 - 7/19 (63)

CONTROL AREA

1959 8/26

1960 5/28 - 7/26

1961 4/27 - 5/21

1962 4/30 - 6/27

4/27 - 5/20

OK

Potential Breeders, *Sceloporus occidentalis* ♂♂ (65 +mm, S-V)

(smallest ♂ = 61 mm)
(largest ♂ = 88 "))

Date	# ♂	No ♂	Total	% ♂
Aug. '58	0	4	4	0
Sept.	0	6	6	0
Oct.	0	6	6	0
Mar. '59	2	2	4	50
Apr.	4	4	8	50
May	19	0	19	100
June	2	13	15	13
July	0	23	23	0
Aug.	0	25	25	0
Sept.	0	6	6	0
Oct.	0	5	5	0
Mar. '60	2	1	3	67
Apr.	19	1	20	95
May	2	0	2	100
June			0	
July	0	3	3	0
Aug.			0	
Sept.	0	1	1	0
Oct.			0	
Nov.	0	4	4	0
Jan. '61	0	1	1	0
Feb.	4	12	16	25
Mar.	29	8	37	78
Apr.	12	1	13	92
May	18	1	19	95
June	0	4	4	0
July			0	
Aug.			0	
Sept.	0	1	1	0
Mar '62	1	0	1	100

Totals, 1956 - 1961

Month	# ♂	No ♂	Total	% ♂
Jan.	0	1	1	0
Feb.	4	12	16	25
Mar.	33	11	44	75
Apr.	35	6	41	85
May	39	1	40	98
June	2	17	19	10
July	0	26	26	0
Aug.	0	29	29	0
Sept.	0	14	14	0
Oct.	0	11	11	0
Nov.	0	4	4	0
Total			245	

Potential Breeders, *Sceloporus occidentalis* ♂♂ (65+mm, S-V).

Date	# ⑧	No ⑧	Total	% ⑧
Apr. 62	9	0	9	100
May	38	0	38	100
Jun	23	1	24	96
Jul.	2	0	2	100
Apr. '63	3	3	6	50
May '63	3	0	3	100
Jun	1	0	1	100
Jul	4	0	4	100
Aug	0	4	4	0
Feb. 64	0	1	1	0

Totals, 1958 - 1963.

Month	# ⑧	No ⑧	Total	% ⑧
Jan.	0	1	1	0
Feb.	4	12	16	25
Mar.	34	11	45	76
Apr.	47	9	56	84
May	80	1	81	99
Jun.	26	18	44	59
July	6	26	32	19
Aug.	0	33	33	0
Sep.	0	14	14	0
Oct.	0	11	11	0
Nov.	0	4	4	0
			337	

Potential Breeders, Sceloporus occidentalis [illegible], B. Elevation

Elevation (ft.)

Date	0 - 1999		2000 - 3999		4000 - 5999		6000 - 7999	
	B/T	% B	B/T	% B	B/T	% B	B/T	% B
Aug. '58	0/2	0			0/2	0		
Sept.	0/1	0	0/5	0	0/1	0		
Oct.			0/3	0	0/3	0		
Mar. '59	2/4	50						
Apr.	2/2	100	1/1	100	1/5	20		
May	5/5	100	5/5	100	5/5	100	3/3	100
June	1/4	25	0/1	0	1/10	10		
July	0/10	0	0/8	0	0/8	0		
Aug	0/2	0	0/2	0	0/11	0	0/5	0
Sept.	0/1	0			0/5	0		
Oct.					0/5	0		
Mar. '60	2/3	67						
Apr.	4/4	100	15/16	94				
May					2/2	100		
June								
July			0/1	0				
Aug.								
Sept.	0/1	0						
Oct.								
Nov.	0/4	0						
Jan. '61	0/1	0						
Feb.	4/16	25						
Mar.	26/33	79	2/2	100				
Apr.	12/13	92						
May	1/3	33	1/1	100	15/15	100	1/1	100
June	0/4	0						
July								
Aug.								
Sept.	0/1	0						

B/T = B/Total

Potential Breeders, *Sceloporus occidentalis* [illegible], By Elevation

(Totals)

Elevation (ft.)

Date	0-1999 ♂/T	0-1999 % ♂	2000-3999 ♂/T	2000-3999 % ♂	4000-5999 ♂/T	4000-5999 % ♂	6000-7999 ♂/T	6000-7999 % ♂
Jan.	0/1	0						
Feb.	4/16	25						
Mar.	30/40	75	2/2	100				
Apr.	18/19	95	16/17	94	1/5	20		
May	6/8	75	9/9	100	22/22	100	4/4	100
June	1/8	12	0/1	0	1/10	10		
July	0/10	0	0/9	0	0/8	0		
Aug.	0/4	0	0/2	0	0/18	0	0/5	0
Sept.	0/4	0	0/5	0	0/6	0		
Oct.			0/3	0	0/8	0		
Nov.	0/4	0						

Sceloporus occidentalis - (65+mm, S-V)

Left Testis Volume - Summary - 1958-1963.

Month	ΣX	N	$\bar{X}$
Jan	113	1	113
Feb	5057	16	316.1
Mar	11403	42	271.5
Apr	17871	57	313.5
May	20123	81	248.4
Jun	3407	44	77.4
Jul	666	30	22.2
Aug	1066	29	36.8
Sep	826	14	59.0
Oct.	1904	11	173.1
Nov.	1494	4	373.5

Sceloporus occidentalis Testis Volumes (65th mm S-V)

Left Testis
1958

	AUG	SEPT	OCT
	19	13	149
	19	78	105
	12	31	139
	12	45	193
		129	190
		40	254
TOTAL VOL	62	336	1030
MEAN	15.5	56.0	171.7
RANGE	12-19	13-129	105-254
NO. LIZARDS	4	6	6

Right Testis

	AUG	SEPT	OCT
	24	12	129
	24	71	89
	11	46	135
	11	43	169
		99	171
		72	242
TOTAL VOL	70	343	935
MEAN	17.5	57.2	155.8
RANGE	11-24	12-99	89-242
NO. LIZARDS	4	6	6

Sceloporus occidentalis Testis Volumes (65 Tmm mm S-V)

1959

Left Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
240	215	205	60	17	10	51	128
210	235	125	29	~	30	37	176
205	240	174	8	11	40	24	205
190	278	179	24	10	8	27	212
	288	281	11	9	36	154	153
	259	308	11	20	8	51	
	244	261	32	16	8		
	195	351	16	11	43		
		308	19	24	50		
		179	21	12	108		
		301	16	34	89		
		137	23	45	4		
		158	26	7	13		
		137	98	22	11		
		217	5	19	8		
		42	47	8	13		
		79		27	15		
		113		15	5		
		84		8	24		
				18	52		
				8	96		
				39	40		
					21		
					24		
					248		
TOTAL VOL.	845	1954	3639	446	380	1004	344	874
MEAN	211.3	244.3	191.5	27.9	18.1	40.2	57.3	174.8
RANGE	190-240	195-288	84-351	5-98	7-45	4-248	24-151	128-212
NO. LIZARDS	4	8	19	16	21	25	6	5

Sceloporus occidentalis Testis Volumes (65+ mm SV)

1959

Right Testis

MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT
193	179	205	60	20	13	40	133
205	241	147	24	38	20	30	205
157	212	200	7	8	30	24	339
190	284	179	35	8	11	22	137
	220	252	10	6	28	125	212
	280	348	11	20	8	42	
	266	229	20	10	~		
	168	299	17	8	50		
		356	19	18	33		
		205	18	11	91		
		339	12	16	59		
		141	20	30	5		
		233	20	5	16		
		158	85	21	13		
		182	6	22	10		
		42	30	7	20		
		107		22	13		
		145		6	4		
		150		8	20		
				18	55		
				7	94		
				28	41		
					18		
					19		
					254		
TOTAL VOL	745	1850	3917	394	337	925	283	1026
MEAN	186.3	231.3	206.2	24.6	15.3	38.5	47.2	205.2
RANGE	157-205	168-284	42-356	6-85	5-38	4-254	22-125	133-339
NO. LIZARDS	4	8	19	16	22	24	6	5

Aceloporus occidentalis Testis Volumes (65+ mm SV)

1960

Left Testis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV
	449	379	171	—	29	—	93	—	105
	281	469	379		41				402
	339	379			6				554
		286							433
		508							
		480							
		512							
		620							
		471							
		552							
		258							
		562							
		633							
		379							
		288							
		288							
		398							
		452							
		347							
		363							
TOTAL VOL.	1069	8624	550	0	76	0	93	0	1494
MEAN	356.3	431.2	275.0	0	25.3	0	93	0	373.5
RANGE	281-449	258-633	171-379	0	6-41	0	—	0	105-554
NO. LIZARDS	3	20	2	0	3	0	1	0	4

Sceloporus occidentalis Testis Volumes (65 mm S-V)

1960

Richard Fleetis

	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV
	314	258	128	—	27	—	93	—	94
	263	354	301		50				368
	280	363			5				582
		294							341
		508							
		413							
		535							
		466							
		402							
		513							
		244							
		445							
		552							
		292							
		312							
		232							
		328							
		361							
		301							
		324							
TOTAL VOL.	857	7497	429	0	82	0	93	0	1385
MEAN	285.7	374.9	214.5	0	27.3	0	93	0	346.3
RANGE	263-314	232-552	128-301	0	5-50	0	—	0	94-582
NO. LIZARDS	3	20	2	0	3	0	1	0	4

Sceloporus occidentalis Testis Volumes (65+ mm S-V)

1961

Left Testis

	JAN	FEB	MAR	MAR	APR	MAY	JUN	JUL	AUG	SEPT
	113	344	158	383	198	141	9	—	—	53
		356	522	222	246	21	10			
		237	312	149	314	252	27			
		361	179	105	240	316	78			
		323	302		17	161				
		344	193		259	205				
		174	179		272	130				
		424	235		193	348				
		263	328		302	462				
		193	369		145	328				
		314	417		153	284				
		330	379		159	246				
		379	354		150	246				
		448	235		184	254				
		246	184			228				
		321	168			248				
			235			258				
			337			246				
			258			137				
			174			49				
			228							
TOTAL VOL	113	5057	295	9302	2832	4560	124	0	0	53
MEAN	113	316.1	139	273.6	202.3	228.0	31.0	0	0	53
RANGE	—	174-448	149	105-522	17-314	21-462	9-78	0	0	—
NO. LIZARDS	1	16	457	34	14	20	4	0	0	1
			229							
			361							
			379							
			379							
			309							

Sceloporus occidentalis Testis Volumes (65+ mm SV)

1961

Right Testis

	JAN	FEB	MAR	MAR	APR	MAY	JUN	JUL	AUG	SEPT
	124	344	150	410	198	149	12	~~7~~	—	35
		332	406	280	274	21	7			
		217	294	102	301	191	36			
		361	193	128	308	280	57			
		220	191		11	200				
		351	205		274	240				
		105	184		286	111				
		323	229		205	206				
		344	265		233	324				
		141	358		129	278				
		244	630		161	196				
		283	433		146	261				
		249	398		167	193				
		566	188		153	273				
		263	229			217				
		269	179			217				
			240			316				
			361			206				
			244			133				
			164			42				
			222							
TOTAL VOL	124	4612	288	8855	2846	4054	112	0	0	35
MEAN	124	288.3	129	260.4	203.3	202.7	28.0	0	0	35
RANGE	—	105-351	146	102-410	11-308	21-324	7-57	0	0	—
NO. LIZARDS	1	16	369	34	14	20	4	0	0	1
			149							
			193							
			278							
			288							
			332							

Sceloporus occidentalis Testis Volumes (65 mm S-V)

1962

Left Testis

	MAR	APR	MAY	MAY	JUN	JUL
	187	286	286	246	294	41
		363	372	280	116	27
		215	273	179	81	
		341	369	217	44	
		263	316	267	46	
		472	316	217	145	
		330	288	205	104	
		286	492		120	
		246	398		78	
			348		59	
			301		16	
			415		128	
			246		195	
			423		158	
			235		145	
			241		108	
			379		128	
			386		120	
			305		179	
			308		57	
			364		102	
			235		81	
			205		154	
			164			
TOTAL VOL	187	2802	179	10386	2658	68
MEAN	187	311.3	206	280.7	115.6	34.0
RANGE	—	215-472	159	179-280	16-294	27-41
NO. LIZARDS	1	9	190	37	23	2
			205			
			171			

Sceloporus occidentalis Testis Volumes (65+mm S-V)

1962

Right Testis

	MAR	APR	MAY	MAY	JUN	JUL
	230	371	316	292	254	26
		415	316	310	135	26
		288	208	203	69	
		386	321	229	55	
		256	288	215	40	
		423	286	228	122	
		316	301	193	143	
		348	388		102	
		235	331		75	
			286		53	
			356		13	
			457		129	
			356		212	
			340		143	
			330		211	
			222		94	
			386		111	
			263		130	
			292		193	
			240		50	
			296		78	
			230		90	
			233		111	
			200			
TOTAL VOL	230	3038	193	10137	2613	52
MEAN	230	337.6	205	274.0	113.6	26.0
RANGE	—	235-423 [redacted]	158	158-457 [redacted]	13-254	—
NO. LIZARDS	1	9	163	37	23	2
			258			
			248			

Scelaporus occidentalis - Testis volumes (65+mm, S-V)
1963

Left Testis

	Apr	May	Jun	Jul	Aug
	157	344	179	20	63
	182	296		85	
	263	348		13	
	321	~~179~~		24	
	434	~~20~~			
	382	~~85~~			
ΣX	1659	988	179	142	63
N	6	3	1	4	1
$\bar{X}$	276.5	329.3	179	35.5	63
range			—		—

Right Testis

	Apr	May	Jun	Jul	Aug
	137	371	161	24	55
	200	235		73	
	305	280		13	
	402			35	
	406				
	309				
ΣX	1759	886	161	145	55
N	6	3	1	4	1
$\bar{X}$	293.2	295.3	161	36.2	55
range			—		—

Sceloporus occidentalis Adults (65+ mm S-V)

⑮ Left testis anterior	⑯ Right testis anterior	⑰ Testes even
	𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸𝍸 𝍸𝍸||||	|

Sceloporus occidentalis Immature (< 65 mm S-V)

(15) Left testis anterior	(16) Right testis anterior	(17) Testes even
	IIII	

Testis Volumes, *Sceloporus occidentalis* Adult (65+ mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 II
𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 IIII	
𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸		

Testis Volumes, Sceloporus occidentalis Immature (<65mm S-V)

Left testis larger	Right testis larger	Testes same size
𝍸𝍸𝍸𝍸𝍸𝍸|||	𝍸𝍸𝍸||||	𝍸𝍸

Sceloporus occidentalis Adult ♂ (65+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar			I	
Apr			I	~~IIII~~ IIII
May			IIII	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ I
Jun			~~IIII~~	~~IIII~~ ~~IIII~~ IIII
Jul				IIII
Aug			I	
Sep				
Oct				
Nov				
Dec				

Sceloporus occidentalis Immature

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May			I	
Jun			II	I
Jul				
Aug			III	
Sep				
Oct				
Nov				
Dec				

Sceloporus occidentalis Adult (60+ mm S-V)

(19) LEFT OVARY ANTERIOR	(18) RIGHT OVARY ANTERIOR	(20) OVARIES EVEN
	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ ///	~~IIII~~ ~~IIII~~

Sceloporus occidentalis

EGGS IN OVIDUCT

	LEFT												RIGHT										
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10		0	1	2	3	4	5	6	7	8	9	10
NO. of TAG																							
76						✓												✓					
82					✓												✓						
86					✓												✓						
312							✓											✓					
453				✓																✓			
456						✓												✓					
467					✓													✓					
470								✓												✓			
472						✓												✓					
473								✓											✓				
474						✓													✓				
476							✓												✓				
479					✓													✓					
480							✓												✓				
481					✓												✓						
482						✓												✓					
490					✓													✓					
512					✓															✓			
517						✓												✓					
549					✓														✓				
556					✓													✓					
557						✓										✓							
558						✓												✓					
566					✓														✓				
570							✓												✓				
577					✓											✓							
578				✓													✓						
580					✓												✓						
584						✓												✓					

Sceloporus occidentalis

EGGS IN OVIDUCT

	LEFT											RIGHT										
NO. of EGGS	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
NO. of TAG																						
589						✓										✓						
595				✓												✓						
621				✓											✓							
623					✓											✓						
629			✓												✓							

Sceloporus occidentalis

SIZE OF EGGS IN OVIDUCT

LIZARD NO.	LEFT (SIZE IN mm.)	RIGHT (SIZE IN mm)
76	13.5 x 7.5 13.8 x 7.8 13.7 x 7.5 14.0 x 8.6 13.5 x 7.5	13.7 x 7.6 13.3 x 7.4 13.8 x 8.4 13.7 x 8.4 13.4 x 8.0
82	13.4 x 6.5 13.7 x 7.2 12.8 x 7.7 13.5 x 7.7	12.6 x 7.4 13.4 x 8.1 13.2 x 7.2 13.1 x 7.8
86	13.2 x 8.0 13.5 x 8.1 13.4 x 8.0 13.5 x 7.8	14.9 x 8.3 13.8 x 8.6 14.7 x 8.0 14.3 x 8.1
312	12.3 x 8.1 12.8 x 8.4 12.5 x 7.8 11.6 x 8.1 12.0 x 8.1 13.1 x 8.4	11.9 x 8.3 13.1 x 8.0 12.2 x 8.4 11.9 x 8.0 11.6 x 8.6
453	12.5 x 6.8 12.2 x 6.8 12.0 x 5.7	10.8 x 7.5 11.4 x 7.5 12.0 x 8.6 10.2 x 6.3 12.0 x 6.8 11.7 x 7.7 / 10.8 x 6.5
456	11.7 x 8.3 12.2 x 7.2 10.8 x 7.5 10.2 x 7.8 10.8 x 8.1	11.7 x 8.0 12.2 x 7.2 10.8 x 7.7 11.1 x 7.7 11.3 x 7.4
467	13.6 x 7.8 14.7 x 7.7 14.1 x 8.2 14.0 x 7.3	13.0 x 7.3 13.3 x 7.5 13.9 x 7.3 13.4 x 7.1 13.7 x 7.7
470	12.6 x 7.8 12.0 x 7.4 12.0 x 8.1 13.1 x 6.6 12.3 x 7.5 11.8 x 6.7 / 12.0 x 7.0	12.6 x 7.3 12.0 x 7.9 11.4 x 6.9 11.5 x 7.4 11.7 x 6.6 11.6 x 7.3 / 11.9 x 7.0
472	13.5 x 8.7 12.8 x 8.4 12.9 x 7.7 12.8 x 8.4 14.3 x 8.7	12.8 x 8.3 12.9 x 7.3 12.6 x 8.3 12.2 x 7.7 13.5 x 7.5
473	12.3 x 8.7 12.2 x 8.4 12.6 x 8.0 12.3 x 8.3 12.5 x 7.7 12.3 x 7.8 / 12.0 x 7.8	12.5 x 7.8 12.8 x 8.6 12.0 x 8.0 12.3 x 8.0 11.7 x 7.5 12.6 x 8.0
474	Broken × ×	Broken × × ×
476	9.0 x 7.5 13.5 x 8.6 13.5 x 8.6 11.7 x 7.8 13.1 x 8.6 12.9 x 8.0	12.8 x 8.1 13.2 x 8.3 12.6 x 7.5 12.5 x 8.0 12.8 x 7.5 12.0 x 8.0
479	13.8 x 7.7 14.1 x 7.8 14.3 x 7.5 13.4 x 6.5	13.1 x 7.5 13.1 x 8.0 13.5 x 7.1 12.0 x 7.8 14.0 x 7.2
480	8.3 x 8.3 9.6 x 8.6 12.5 x 8.3 12.0 x 8.3 12.6 x 8.0 11.7 x 8.1	11.9 x 8.3 11.6 x 7.5 12.3 x 8.7 10.5 x 7.4 11.3 x 8.1 11.3 x 6.8
481	12.3 x 7.5 13.5 x 8.3 13.1 x 8.0 12.0 x 7.5	13.5 x 7.1 8.1 x 12.9 12.5 x 11.1 13.5 x 8.4
482	12.8 x 7.1 13.7 x 8.3 13.2 x 7.7 14.7 x 8.0 14.1 x 6.3	14.3 x 7.7 13.8 x 7.5 15.0 x 8.0 13.1 x 7.8 13.5 x 8.0
490	13.5 x 7.8 13.5 x 7.4 13.1 x 6.5 14.0 x 8.0	14.3 x 6.8 15.0 x 8.7 13.5 x 7.2 12.5 x 7.7 13.8 x 8.3
512	9.8 x 8.3 11.0 x 7.7 10.8 x 8.0 10.8 x 8.1	10.5 x 8.6 11.3 x 7.5 11.0 x 7.2 11.3 x 7.4 10.5 x 6.8 10.8 x 7.4 / 10.4 x 6.5
517	12.9 x 7.8 12.6 x 7.5 11.7 x 8.3 12.3 x 8.0 12.0 x 7.5	
549	12.3 x 7.5 12.8 x 6.8 12.5 x 6.8 13.5 x 7.8	12.8 x 7.5 12.0 x 7.1 12.0 x 7.2 12.8 x 7.7 12.2 x 7.8 12.5 x 7.5
556	13.8 x 8.3 13.4 x 7.5 13.5 x 7.8 12.8 x 7.4	13.1 x 7.8 12.5 x 7.2 13.7 8.4 12.9 x 8.1 12.9 x 7.4
557	11.7 x 6.8 13.4 x 7.2 12.5 x 7.8 12.6 x 7.5 12.0 x 8.3	14.0 x 7.1 14.1 x 6.5 13.7 x 7.8
558	12.5 x 9.0 13.5 x 8.7 13.1 x 8.7 13.5 x 8.0 13.7 x 7.8	13.5 x 8.3 13.2 x 8.0 13.8 x 8.3 14.3 x 8.6 13.5 x 8.9
566	11.8 x 8.0 12.0 x 7.8 12.3 x 8.3 13.8 x 7.5	13.1 x 8.0 12.8 x 8.1 13.2 x 8.0 12.6 x 7.5 12.3 x 8.0 11.4 x 7.9
570	12.2 x 8.1 13.7 x 7.5 12.8 x 7.4 13.2 x 8.1 13.7 x 8.3 13.1 x 8.4	12.0 x 6.8 13.7 x 7.7 13.2 x 7.9 13.1 x 6.9 12.8 x 7.1 13.5 x 7.2
577	13.5 x 7.2 12.5 x 8.0 13.4 x 8.0 12.9 x 8.4	13.1 x 8.0 12.3 x 8.7 13.5 x 8.6
578	13.1 x 8.0 14.1 x 7.2 14.3 x 7.5	14.0 x 7.7 14.1 x 7.7 13.5 x 7.5 15.0 x 8.1
580	14.0 x 7.5 13.5 x 7.8 13.5 x 7.5 13.2 x 6.9	14.3 x 8.3 14.0 x 7.8 13.7 x 6.9 14.1 x 7.2
584	13.2 x 7.4 13.4 x 7.2 14.3 x 7.2 13.8 x 7.5 14.0 x 7.5	12.2 x 7.7 12.3 x 7.8 12.5 x 7.5 12.8 x 7.5 13.2 x 7.2

Sceloporus occidentalis

SIZE OF EGGS IN OVIDUCT

LIZARD NO.	LEFT SIZE IN mm.	RIGHT SIZE IN mm.
589	12.8 x 7.5 13.1 x 8.0 12.5 x 8.3 13.7 x 8.1 14.0 x 7.4	13.5 x 8.0 13.5 x 8.0 13.5 x 7.2 13.5 x 7.8
595	13.8 x 8.1 13.1 x 6.8 12.0 x 7.2	12.2 x 8.3 12.5 x 7.7 Ruptured 12.2 x 8.0
621	13.1 x 7.2 13.5 x 6.8 13.4 x 7.2	13.8 x 6.6 13.2 x 6.6 12.6 x 6.8
623	14.4 x 8.3 14.7 x 7.5 14.1 x 8.3 14.0 x 7.5	13.2 x 7.5 12.8 x 8.1 14.3 x 8.1 14.3 x 7.7
629	14.3 x 8.3 13.7 x 7.1	15.3 x 8.0 14.7 x 8.4 14.0 x 7.5
	N = 149	N = 155
	Σx = 1918.9 x 1155.0	Σx = 1982.1 x 1196.2
	$\bar{x}$ = 12.9 x 7.8 mm	$\bar{x}$ = 12.8 x 7.8 mm

N = 304

Σx = 3901.0 x 2351.2

$\bar{x}$ = 12.8 x 7.7 mm

Range = 8.3 x 5.7 mm To 15.3 x 9.0 mm

Sceloporus occidentalis

OVA WITH YOLK

NUMBER OF OVA	LEFT OVARY	RIGHT OVARY
1	11	
2	11	1
3	11	111
4	卌 卌 卌	卌 卌 卌 1
5	卌 卌 卌 1	卌 卌 1111
6	卌 卌 11	卌 卌 1
7	1	11
8	111	11
9		
10		1

Sceloporus occidentalis

FAT BODIES

7

MONTH	ADULT ♂ (65+ mm.)	ADULT ♀ (60+ mm.)	IMMATURE ♂	IMMATURE ♀
JAN.	I			
FEB.	卌 卌 I			卌
MAR.	卌 卌 II	卌 卌 III	I	II
APR.	卌 卌 IIII	卌 卌 IIII	I	II
MAY	卌 卌 卌 卌 卌 II	卌 卌 卌 IIII		III
JUN.	卌 卌 卌 卌 卌 III	卌 卌 II	III	I
JUL.	卌 卌 卌 卌 II	卌 卌 卌 卌 I	卌 I	II
AUG.	卌 卌 IIII	卌 卌 卌 卌 II	卌 I	II
SEPT.	卌 I	IIII		
OCT.	卌 II	卌		I
NOV.	IIII	II		
DEC.				

Sceloporus occidentalis Adult (60+ mm S-V)

No.	Left ovary	Right ovary
6	I	II
7	IIII	II
8	II	I
9	卌 II	卌 III
10	卌 I	III
11	卌 IIII	卌 卌
12	卌 卌 卌 II	卌 卌
13	卌 卌 卌 卌 II	卌 卌 卌 卌 II
14	卌 卌 I	卌 卌 卌 卌 I
15	卌 卌 卌 II	卌 卌 卌 卌 III
16	卌 卌 卌 卌 IIII	卌 卌
17	卌 卌 卌	卌 卌 卌 II
18	卌 卌 卌 II	卌 卌 IIII
19	卌 卌 II	卌 III
20	卌 卌 III	卌 III
21	卌	卌 IIII
22	卌 I	卌 I
23	IIII	卌 II
24	IIII	卌 III
25	II	I
26	III	II
27	I	I
28	I	
29		II
30		I
31		
32		
33		
34		
35		
36		I

Sceloporus occidentalis Immature

No.	Left ovary	Right ovary
7	II	IIII
8	~~IIII~~ I	IIII
9	~~IIII~~	~~IIII~~
10	~~IIII~~ II	~~IIII~~
11	IIII	III
12	IIII	~~IIII~~
13	~~IIII~~ II	~~IIII~~ I
14	IIII	~~IIII~~ II
15	IIII	I
16	III	III
17	I	II
18		I
19		I
20		II
21		II
22	II	
23		
24		
25		
26		
27		
28		
29		
30		
3		I
4	I	

Sceloporus occidentalis Adult ♀ (60+ mm S-V)

	B	B1	B2	B3
Jan				
Feb				
Mar I				
Apr		~~IIII~~		
May II		~~IIII~~ I	IIII	II
Jun		~~IIII~~ IIII	II	IIII
Jul		III	I	I
Aug		III	I	
Sep				
Oct				
Nov				
Dec				

Sceloporus occidentalis Immature ♀

	B	B1	B2	B3
Jan				
Feb				
Mar				
Apr				
May				
Jun				
Jul				
Aug		1		
Sep				
Oct				
Nov				
Dec				

SCELOPORUS ORCUTT

Potential Breeders, *Sceloporus orcutti* ♂♂ (90+mm, S-V)

(smallest ♂ = 92 mm)
(largest ♂ = 115 ..)

Date	# ♂	No ♂	Total	% ♂
Aug '58	3	1	4	75
Sept.	0	2	2	0
Jan. '59	0	2	2	0
Feb.			0	
Mar.	0	1	1	0
Apr.	0	2	2	0
May	3	0	3	100
June	2	0	2	100
July	10	2	12	84
Aug.	7	3	10	70
Mar. '60	0	3	3	0
Apr.	2	0	2	100
Jan. '61	0	3	3	0
Feb.	0	6	6	0
Mar.	0	10	10	0
Apr.	7	5	12	58
May	5	1	6	83
June	12	0	12	100
July			0	
Aug.	1	0	1	100
Sept.	0	2	2	0
Mar. '62	0	1	1	0
Apr.	1	0	1	100
May	2	0	2	100

Totals, 1958–1961

Month	# ♂	No ♂	Total	% ♂
Jan.	0	5	5	0
Feb.	0	6	6	0
Mar.	0	14	14	0
Apr.	9	7	16	56
May	8	1	9	89
June	14	0	14	100
July	10	2	12	84
Aug.	11	4	15	73
Sept.	0	4	4	0
			95	

Totals, 1958 – 1962

Month	# ♂	No ♂	Total	% ♂
Jan.	0	5	5	0
Feb.	0	6	6	0
Mar.	0	15	15	0
Apr.	10	7	17	59
May	10	1	11	91
Jun	14	0	14	100
July	10	2	12	84
Aug	11	4	15	73
Sept.	0	4	4	0
Total			99	

R-371

STEEL BACKPLATE

S. E. & M. VERNON, INC.

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